

*The*  
**AMERICAN  
RIFLEMAN**



Published By  
The National Rifle Association of America  
Incorporated 1871

25 CENTS

# NEW PISTOL RECORDS

## WITH PETERS .38 SPECIALS



AT CALIFORNIA  
PISTOL AND REVOLVER  
MATCHES, JUNE 27-28

### INDIVIDUAL RECORD—NATIONAL COURSE

	50 yds. Slow Fire	25 yds. Timed Fire	25 yds. Rapid Fire	Total
J. J. Engbrecht	94	99	99	292

### TEAM RECORD—NATIONAL COURSE

Los Angeles Police Team	Slow	Timed	Rapid	Total
J. J. Engbrecht	94	99	99	292
E. E. Jones	89	96	96	281
M. E. Wheeler	91	100	89	280
L. J. Young	84	94	86	264
J. O. Dircks	86	98	95	279
				1396

### TEAM RECORD—POLICE COURSE—ALL 25 YARDS

Los Angeles Police Team	Slow	Timed	Rapid	Total
J. J. Engbrecht	99	97	95	291
E. E. Jones	99	98	93	290
M. E. Wheeler	98	97	87	282
L. J. Young	99	94	77	270
C. E. Ward	95	93	87	275
				1408

BE WITH THE WINNERS AT CAMP PERRY—PIN YOUR FAITH TO PETERS

# PETERS



PETERS CARTRIDGE DIVISION,  
Remington Arms Co., Inc.  
Dept. 1-26, Bridgeport, Connecticut



Ray E. Loudon



Francis J. O'Hare



Dana Scarborough



C. F. Rider



A. L. Darkow



V. Z. Canfield



Merle Israelson



Dave Bashline

# 8 Firsts at Indiana, 9 at Akron with **WINCHESTER** EZXS

TRADE MARK

17 Out of 21 Firsts — 11 Seconds, 15 Thirds — in Two Biggest Small-bore Shoots of the Month. Over 66% of the Highest Places

**K**EEPING step with the conspicuous successes won in all previous leading small-bore tournaments of the season, shooters who used Winchester EZXS cleaned up most of the honors at the big Indiana, Pa., and Akron, Ohio, tournaments, held respectively July 10-12 and July 31-August 2. At Indiana, they carried off 8 Firsts, 5 Seconds, 8 Thirds, out of the 10 matches, not including international team match. At Akron's big Zeppelin rifle shoot they put on still more heat, taking 9 Firsts, 6 Seconds, 7

Thirds out of 11 matches (No. 10 not listed), not including international team match. Notable winners in these two tournaments were prominent members of the Goodyear Zeppelin Rifle Club, regular users of EZXS.

## INDIANA (PA.) RIFLE CLUB SHOOT

INDIANA, PA., JULY 10-11-12

Camp Perry Special Match—50, 100 Yds.—

Metallic Sights

1. F. J. O'Hare	399	M52	EZXS
2. T. T. Charlton	398	M52	EZXS
3. V. Z. Canfield	397	Win. bbl.	EZXS

50 Meter Two-Man Team Match—Any Sights

1. Thill-Arnold	200-197-397	52-J-52J	EZXS
2. Barrett-Hale	196-199-395	M52-52	EZXS-EZXS
3. Salkeld-Patruquin	196-198-394	M52J-52	EZXS-EZXS

50 Meter Match—Metallic Sights

1. A. L. Darkow	199	M52	EZXS
3. D. A. Bashline	198	M52	EZXS
4. C. C. Harmer	198	M52	EZXS

Dewar Two-Man Team Match—50, 100 Yds.—

Metallic Sights

1. Canfield-Darkow	397-399-796	Win. bbl.-52	EZXS-EZXS
2. Rider-Charlton	399-397-796	M52-52	EZXS-EZXS

3. Bashline-Israelson	399-397-796	M52-52	EZXS-EZXS
4. *Dorothea Kelley-W. E. Kelly	400-395-795	M52-52	EZXS-EZXS

1. G. D. Blakeslee	200-11Xs	M52	EZXS
3. R. D. Berkheiser	200-10Xs	M52	EZXS
4. C. F. Black	200-10Xs	M52	EZXS

\*Officially accepted World's Record for women.

100 Yd. Match—Any Sights

1. G. D. Blakeslee	200-11Xs	M52	EZXS
3. R. D. Berkheiser	200-10Xs	M52	EZXS
4. C. F. Black	200-10Xs	M52	EZXS

Short Range Two-Man Team Match—50, 100 Yds.—

Any Sights

1. Darkow-Canfield	399-396-795	M52-Win. bbl.	EZXS-EZXS
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Pennsylvania Championship—Aggregate of

Matches 3, 4, 6 and 8

1. A. L. Darkow	1390	M52	EZXS
3. V. Z. Canfield	1387	Win. bbl.	EZXS

1. Helen Hale	395	M52	EZXS
2. Dorothea Kelley	390	M52	EZXS
3. Minnie McCoy	385	M52	EZXS

50 Yd. Match—Metallic Sights

2. V. Z. Canfield	200-10Xs	Win. bbl.	EZXS
3. Lowry Smith	199-15Xs	EZXS	EZXS
4. C. F. Rider	199-14Xs	M52	EZXS

## ZEPPELIN RIFLE CLUB TOURNAMENT

AKRON, OHIO, JULY 31 - AUGUST 2  
50 Meters—Any Sights

1. R. E. Loudon	400	M52-Dub.	EZXS
2. Merle Israelson	398	M52	EZXS
3. Milton Klotz	398	M52	EZXS

Dewar Individual—50, 100 Yds.—Metallic Sights

1. V. Z. Canfield	398	Win. bbl.	EZXS
2. John Campbell	397	M52	EZXS
3. A. L. Darkow	397	M52	EZXS

Dewar Two-Man Team Match—50, 100 Yds.—

Metallic Sights

1. V. Z. Canfield-A. L. Darkow	398-396-794	Win. bbl.-M52	EZXS-EZXS
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50 Meter Two-Man Team Match—Metallic Sights

1. Dave Bashline-Merle Israelson	198-199-397	M52-M52	EZXS-EZXS
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American Legion Match—50 Meters—Metallic Sights

1. Dana Scarborough	200	M52	EZXS
2. R. E. Loudon	199	M52	EZXS
3. M. L. Kobler	198	M52	EZXS

Women's Match—50 Meters—Metallic Sights

1. Helen Hale	198	M52	EZXS
3. Dorothea Kelley	197	M52	EZXS

Zeppelin Individual—50, 100, 200 Yds.—Any Sights

2. C. F. Rider	495	M52	EZXS
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100 Yard Individual—Any Sights

1. R. E. Loudon	200-11Xs	52 Dub.	EZXS
2. V. Z. Canfield	199-12Xs	Win. bbl.	EZXS
4. Minnie McCoy	199-10Xs	M52	EZXS

50 Meter Individual—Metallic Sights

1. Merle Israelson	399	M52	EZXS
3. V. Z. Canfield	398	Win. bbl.	EZXS
2. J. K. Bernauer	398	M52	EZXS

Zeppelin Open Small-Bore Championship—

Aggregate of Matches 2, 8, 10 (not listed) and 11

1. V. Z. Canfield	1481	Win. bbl.	EZXS
3. Merle Israelson	1480	M52	EZXS
5. R. E. Loudon	1475	EZXS	EZXS

## AT CAMP PERRY

● Be prepared with Winchester EZXS. Take them with you—or get them from your favorite dealer on Commercial Row or at Winchester's Headquarters. In accordance with Winchester's established reputation for service to shooters, we will have our factory expert at Camp Perry during the Small-Bore Matches to make any necessary repairs or adjustments on your Model 52. Discuss your shooting and equipment with Winchester's Shooting Promotion Manager, Major J. W. Hession. See Winchester's exhibit of small-bore and large-bore target rifles—and record targets shot with EZXS.



Mrs. Dorothea Kelley, whose remarkable score of 400 x 400 in the Two-Man Dewar match at Indiana, Pa., established a new world's record for women.



Mrs. Helen Hale, winner of the women's matches at Indiana and Akron. Winner Ohio Dewar course match at Camp Perry in June, with 399 x 400.

**WINCHESTER REPEATING ARMS COMPANY, NEW HAVEN, CONN., U. S. A.**

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THIS  
DANIEL  
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RADIATOR  
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AUTO  
50c



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Official N. R. A. Mirakel .22 Caliber Scoring Gauge with rustproof flange of guaranteed accuracy and 8X magnifying glass attached. Price of \$1.00 includes handy leather case. Also our new exclusive "3 in 1" Score Gauge equipped with flange for .22, .38 and .45 scoring on one stem. Price, \$1.25 each.

### Sterling Miniature Badges



Actual size. Three types (specify which)—"expert rifleman," "pistol expert," and "sharpshooter." Safety-pin type catch. Regularly 50c; our special price 35c each.



### A Pin You Can't Lose

Life membership pins in 10-K solid gold with safety catch. Purchased long before the price of gold went sky-rocketing. Very special at the same old price—\$2.50 each.



### Official Trigger Weights

Every club should have an official weight for testing the trigger pull of rifles and pistols during club matches. Shooters training for the big National matches likewise need it to keep their trigger pulls up to par.

Rifle Trigger weight—  
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Trigger weight for all  
guns (tests from two  
to four pounds)—  
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### Other Fraternal Items



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Seal on handle, each... \$1.00  
N. R. A. Loose-  
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50 .22 I. R.)  
with N. R. A.  
on box, each... .50  
"Annual" and "Life" Member Felt  
Brassards for shooting coat, each .50

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816 Barr Bldg., Washington, D. C.

## FOR SHOOTERS THESE BOOKS AND MANUALS

For the convenience of subscribers we carry a complete line of shooters' textbooks and manuals, each of which has been read and endorsed by Fred Ness, Dope Bag Editor and N. R. A. Technical Division Manager. Among the textbooks listed immediately below you will find the cream of volumes written by shooters for shooters, many of them "best sellers" for several years past. Then at the bottom of this page we list the four new exclusive popularly priced manuals announced last month. We can take care of your orders for any of these books and manuals.

### SHOOTERS' TEXTBOOKS

TEXTBOOK OF FIREARMS IDENTIFICATION, which includes in the same volume the TEXTBOOK OF PISTOLS AND REVOLVERS, HATCHER ..... \$7.50

TEXTBOOK OF PISTOLS AND REVOLVERS without Firearms Identification data, HATCHER ..... 4.25

.22 CALIBER RIFLE SHOOTING, LANDIS... 3.75  
The only book available on the .22 caliber rifle.

WILDERNESS HUNTING AND WILDCRAFT, WHELEN ..... 3.75  
A book by Colonel Whelen, easy to read—worth reading.

MODERN GUNSMITHING, BAKER..... 4.50  
Consistently the preference of gunsmiths, especially amateurs.

YANKEE ARMS MAKER, ROHAN. The life story of Samuel Colt, inventor of the revolver ..... \$3.00

BOOK OF THE SPRINGFIELD, CROSSMAN ..... 4.00  
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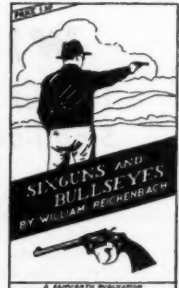
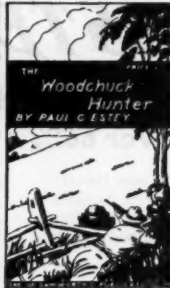
### SHOOTERS' MANUALS

Big Game Rifles and Cartridges, Elmer Keith ..... \$1.50

Telescopic Rifle Sights, Townsend Whelen... \$1.50

The Woodchuck Hunter, Paul C. Espey ..... \$1.50

Sixguns and Bullseyes, Wm. Reichenbach... \$1.50



Our exclusive gun cases and the other items mentioned on this page are an essential part of every shooter's equipment. The N. R. A. gun case protects your guns (and shooting equipment), keeps them safe, intact, and free from dirt. Serves as a handy carrying or shipping case, too.

The Two-Gun Pistol Case comes equipped with blocks made to order for your two favorite revolvers or pistols. The rifle case is manufactured exclusively for the popular Winchester 52 Target or Sporter (specify which), but you can rearrange the blocks and make the case take any rifle with or without scope sight attached.

All our gun cases are made of tough imitation leather, jet black, with nickel-plated locks and hinges. They are quality cases, unconditionally guaranteed to give the service and satisfaction you expect. The Two-Gun Pistol case costs \$7.50 (f.o.b. factory). The Rifle Case sells for \$12.00 (f.o.b. Washington). Send orders with remittance to the N. R. A. Be sure to specify the model of your guns.



NATIONAL RIFLE ASSOCIATION  
BARR BUILDING WASHINGTON, D. C.



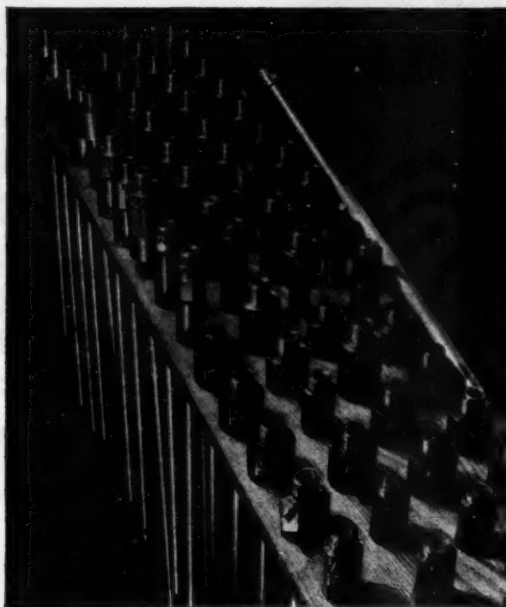
# RELOADER NEWS



Prepared by **HERCULES POWDER COMPANY**, Wilmington, Delaware

INCORPORATED

Some of the 192 special barrels used by Hercules Powder Company in determining chamber or breech pressures. A separate barrel is necessary for each individual caliber and cartridge. Hercules has pressure gauges for all popular rifle, revolver, and pistol cartridges from the .22 caliber short up to and including the .45 caliber.



## Pressure Determinations In Rifles

Expensive equipment is necessary for determining velocity and pressure in the great variety of popular cartridges used in this country. Hercules pressure gauges cost anywhere from \$85.00 to as high as \$400.00 each and are rifled and chambered in the tool shops of arms manufacturers so that their dimensions will be standard and conform to normal guns.

Many duplicate pressure gauges are provided as standards for comparison in order to determine when the work gauges are worn out. When a pressure gauge begins to fall off in results it is discarded regardless of the number of rounds that have been fired in it. Accurate records are kept of the number of rounds fired in each gauge and this record is shown on the sheet for every test made.

To determine the loss in ballistics as the gauge wears, a test of standard ammunition or reference powder of known ballistic performance is made for comparison with each new powder test conducted.

Pressure determinations are of vital importance to everyone connected in any way with the loading performance of ammunition. Pressures alone limit the maximum powder charges that are safe to use. It is more important to a powder manufacturer and ammunition company to know the relative pressures of a given load than it is for them to have accurate data on velocities.

For this reason, no expense is spared to secure the highest grade of pressure gauges, and no hesitation is shown in scrapping an expensive gauge, even if only a few rounds have been fired in it, if the gauge is false.

## MARKSMEN TO COMPETE FOR HERCULES RIFLE TROPHY AT CAMP PERRY

Small bore riflemen from all sections of the country will compete for the Hercules Trophy at the National Rifle Matches to be held at Camp Perry, Ohio, Aug. 23 to Sept. 13, 1936. This trophy—a bronze figure of Hercules by the Athenian sculptor, Glycon—was presented by Hercules Powder Company in 1923 for perpetual competition. This event is open to teams of two men firing 20 shots at 100 yd. and 20 shots at 200 yd., using .22 caliber rim fire shells. To the winning team go miniature replicas of the trophy and gold medals. Bronze medals are awarded to the next four teams.

All-time winners of the Hercules Trophy:

Year	Competitor	Year	Competitor
1923	E. H. Henderson	1930	H. J. Adams, Jr.
	F. L. King		H. H. Jacobs
1924	C. H. Johnson	1931	B. R. O'Neill
	T. G. Lively		V. Z. Canfield
1925	J. H. Robertson	1932	Thurman Randle
	R. H. McGarity		L. A. Wilkins
1926	W. A. Ferguson	1933	Thurman Randle
	Benjamin Riley		L. A. Wilkins
1927	J. C. Jensen	1934	W. B. Woodring
	R. H. McGarity		Clarence Held
1928	D. S. McDougal	1935	W. H. Oakley
	L. Wilkins		J. D. McNabb
1929	V. Z. Canfield		
	J. E. Miller		

## YOU CAN BUY HERCULES POWDERS AT CAMP PERRY

Among other items of interest to shooters to be shown by Hercules Powder Company on Commercial Row at Camp Perry, August 23-September 13, will be large photographs taken at our Ballistic House where all Hercules powders undergo exhaustive tests. These photographs will show the precision equipment used in measuring velocity, recoil, pressure and pattern, and other operations which assure the uniform shooting qualities of Hercules powders.

Hercules also will have a stock of powders to meet the needs of reloaders at the National Rifle Matches. Powders for sale will include HiVel No. 2, HiVel No. 3, 2400, Lightning, Sharpshooter, Unique, and Bullseye. Visit Hercules and discuss your reloading problems with our ballistic engineers, who will be attending the matches.



The Hercules Trophy is a replica of the beautiful Athenian statue by Glycon.

### Booklets Available at Camp Perry

A supply of booklets describing Hercules sporting powders and giving tabulations for loads for the most popular cartridges will be available at the National Rifle Matches. Of course, there will be no charge for these. If you are not attending the matches, write for any of the leaflets listed on the right:

**HERCULES POWDER COMPANY**

INCORPORATED

980 King Street

Wilmington, Delaware

### POWDERS

HiVel No. 2  
HiVel No. 3  
Lightning  
Sharpshooter  
Unique  
No. 2400  
Red Dot  
Herc  
Bullseye and Unique  
for Revolvers  
and Pistols.

### CARTRIDGES

.250/3000  
.25 Remington  
.25/35  
.270 Winchester  
.30/30, .30 W.C.F.—  
.30 Rem.  
.300 Savage  
.30 '06  
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*Winners!*

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**MODEL** CAL. .38  
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**Revolver**

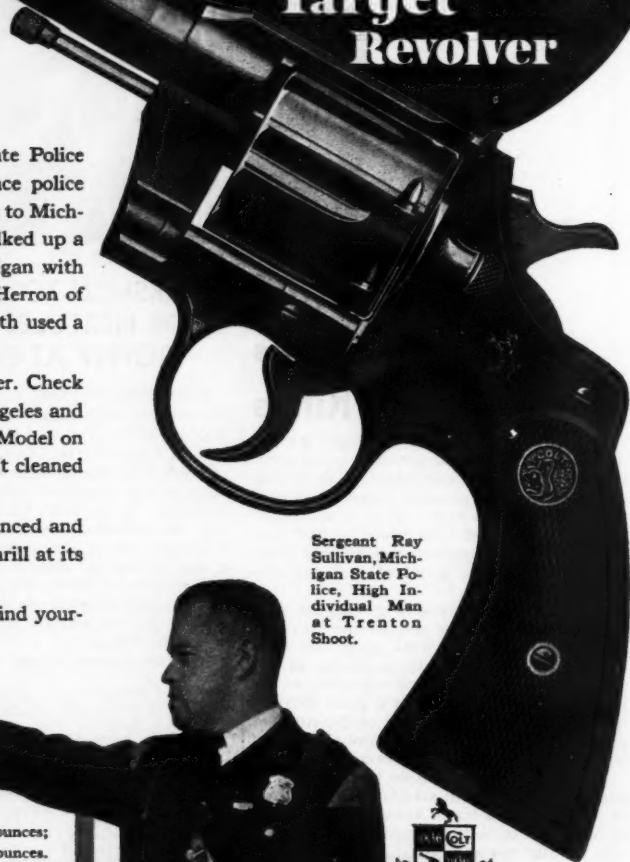
**First..**  
*in a field of 65!*

Competition was keen at the Trenton, New Jersey State Police Shoot. There, on May 23rd, sixty-five of the country's ace police teams stepped to the line and shot it out. Team honors went to Michigan State Police who with their Colt Officers' Models chalked up a splendid 1464. High individual honors also went to Michigan with Ray Sullivan of the same team scoring a 298, outranking Herron of the Delaware & Hudson R.R. Police by a hair's breadth. Both used a Colt Officers' Model.

The Colt Officers' Model is a regular black circle go-getter. Check the scores at Tampa, Trenton, Ritchie, Harrisburg, Los Angeles and dozens of other important shoots. You'll find the Officers' Model on top in match after match. It's the gun the champions use. It cleaned up at Perry last year — and it's doing it again this year.

The Officers' Model is superbly accurate, beautifully balanced and built with the precision of a jeweled watch. You, too, will thrill at its silken action, its super-rifling, its many target refinements.

Step up to the line and shoot an Officers' Model. You'll find yourself getting groups you never before thought possible.



Sergeant Ray Sullivan, Michigan State Police, High Individual Man at Trenton Shoot.

#### SPECIFICATIONS

Built on .41 frame. Bead or Patridge sights, adjustable and non-reflecting. Hand-finished, super-smooth target action. Checked back strap, trigger and hammer spur. Blued finish. Stippled top of frame. Checked walnut stocks. Choice of 5 barrel lengths, 4, 4 1/2, 5, 6 and 7 1/2". Heavy barrel in 6" length only. Weight, Cal. .38 Spec-

ial, with 6" heavy barrel, 36 ounces; with 6" standard barrel, 34 ounces. Length over all 6" barrel, 11 1/4".

Target refinements on .22 Long Rifle Model same as Cal. .38 Special. Length of barrel 6" only. Length over all 11 1/4". Weight 38 ounces. Embedded Head Cylinder permits safe use of high speed ammunition.

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Send me all the facts on the Officers' Models.

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# The AMERICAN RIFLEMAN

VOL. 84, No. 9

SEPTEMBER, 1936

## N. R. A. SERVICE

**LEGISLATIVE DIVISION:** Looks after the interests of the shooters in Congress and State Legislatures, carries on the organized fight against unsound anti-gun laws, encourages legislation for the aid of civilian rifle practice and assists members to obtain permits to carry firearms to and from a range in states requiring such permits.

**THE AMERICAN RIFLEMAN:** This magazine is the official monthly publication of the N. R. A., and as such is "The Voice of the N. R. A." Non-political and non-sectarian in policy and free from commercial domination, it can and does speak freely, frankly and with authority on all shooting matters.

**TECHNICAL DIVISION:** Helps members with their personal shooting problems, reports in *THE AMERICAN RIFLEMAN* each month practical tests and critical examinations of new guns and equipment, and gives by personal letter advice on the selection of the right gun for a specific purpose, reloading, restocking, etc.

**CLUB SERVICE DIVISION:** Assists shooters in organizing local rifle and pistol clubs, furnishes detailed diagrams for the construction of regulation indoor and outdoor ranges, suggests a varied program and competition to keep up the interest of members, and generally assists affiliated units by passing along the successful experiences and ideas of other clubs.

**MEMBERSHIP EXTENSION:** Operates as a service division by furnishing members with sales literature and printed information so that they may explain to fellow sportsmen the value and benefits of N. R. A. membership and, moreover, because increased membership means an extension of N. R. A. service, it serves to benefit members in this way.

**COMPETITIONS DIVISION:** Conducts a year-round program of home-range matches in which members may win distinctive medals while practicing at home with rifle and pistol, aids state associations and civilian clubs in planning and conducting regional, state and local shooting matches, and gives members helpful personal advice on their individual target-shooting problems.

**JUNIOR DIVISION:** Provides individual and club memberships for junior shooters, boys and girls alike; conducts a year-round program of competitive and qualification shooting, and teaches Young America how to handle firearms safely and properly. No father should hesitate to support its good work.

**POLICE DIVISION:** Assists police departments in marksmanship training of their officers. Through the Association's far-flung contact and with the aid of experienced hands to carry on the work, this division is performing a public service which warrants the support of every good citizen.

**PUBLICITY DIVISION:** Endeavors to educate the American public through the public press to the fact that the man who likes to shoot is not a criminal and, although its services are intangible in character, it represents an important chain in the campaign "to make America, once again, a Nation of Riflemen."

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# POWDER SMOKE

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## Open Seasons Ahead

SEPTEMBER ushers in the beginning of "open game seasons" for both the rifle and shotgun clan. Hunting dogs develop a wistful look and an expectant cocking of heads and ears when a heavy footfall may herald a corduroy-clad figure in hunting boots. Here and there the golden brilliance of the summer sun is trapped and held by the leaves on the trees in the woodlot—as if they knew that soon only the gold and scarlet of the leaves would remain to warm the mind of man while his body was pleasantly chilled by the brisk air of Autumn.

September starts the trek to Mecca for the man who loves his dogs and his guns and the healthy, hearty fellowship of the hunting field. But more and more, as the years pass, the open season brings increasingly grave responsibility for the true sportsman. The depredations of the game hog must be taken more seriously as the game supply is lessened in various areas. The careless handling of guns by the inexperienced becomes more surely fatal as hunting areas are restricted. Following an accident or the arrest of a game-law violator, the hue and cry against guns and gunners becomes more insistently vocal and more widespread as fewer editors and reporters have time or inclination to learn the lore of dog and field, and of gun and gunner.

There is but one answer: Every

sportsman must consider himself personally responsible for the job of seeing that sane bag limits are observed; that careless handling of firearms is instantly suppressed; that the use of worn-out guns with poor locks, light triggers, broken safeties, is frowned upon; that the practice of blithely lending a gun to some "good fellow," who knows nothing about elementary safety rules or hunting etiquette, is discontinued.

If every *individual* member of the National Rifle Association (not including rifle-club members) would seriously undertake to guide his friends in the elemental matters of gun safety and good manners in the hunting field, there would be 50,000 missionaries of good sense abroad in the hunting field this Fall. It is impossible to believe that anything except lives saved, injuries avoided, and unfavorable publicity for guns and gunners measurably decreased, would result from such concerted effort.

Accidents in the hunting field do not "happen"—they are *caused*. Caused by carelessness and by ignorance. No greater influence exists in America for the correction of these twin evils than that of the membership of the N. R. A. But it is a personal job, which must be done by each man in his own circle of friends.

Let us declare "Open Season" on gun accidents!

# *The* **AMERICAN RIFLEMAN**

SEPTEMBER, 1936

## **The .22 Hornet in the Game Fields**

By HENRY E. DAVIS

**B**LACK powder, plain lead, and low velocities won this continent, and the same combination all but exterminated its vast hordes of game. Now when but a remnant of game remains, what is the excuse for rifles and cartridges of ultra-velocity and power that reduce flesh to pulp, and kill in the next county? Excuse or no excuse, however, the shooter of today must have speed and power, and in obedience to his demands, the factories have given him the .220 Swift, with its velocity of 4200 feet per second; and even this does not satisfy him, for he is now wondering whether it will be possible to accelerate the speed to 5000 feet per second. Now do not misunderstand me. I hold no brief for or against the .220 Swift and similar rifles and cartridges. No doubt they will do all that is claimed for them, and are ideal for use on vermin in unsettled communities, especially among the hills both of the East and of the West. With all of their good points, however, they are but the utmost refinement in special-purpose rifles and cartridges, and are wholly out of place for general use. Their excessive range and loud report would not be tolerated in a densely-populated country, their frightful mutilation of flesh renders them unfit for use on small or medium game, and their high cost per shot puts them out of reach of the average man. I do not own a .220 Swift, and I have no intention of buying one, as all of the factors above named would deter me from using it. This conclusion does not rest upon theory, but upon tested experience. I do own the 30-'06 Springfield, .25 Roberts, .250 Savage, and .22 Niedner Magnum, and each is too much gun for this flat country. Each is fine for special work in woodchuck country, but useless for general purposes in my home section. So why add another to my collection of special-purpose rifles?

True, these high-intensity cartridges are accurate, but not more so than many others of lesser power and lower velocity. Indeed, as an instrument of precision the rifle undoubtedly reached its zenith in the heavy .32-40 caliber single-shot Schuetzen rifle as made by the great masters like Pope; and the best .220 Swift would stand no chance in a 200-yard match against one of these masterpieces in the hands of a real Schuetzen shot. But the Schuetzen rifle, too, is a special-purpose arm, and worse than useless in the game fields.

The .22-caliber long rifle is the one indispensable cartridge, as its cheapness permits its use in quantities sufficient to keep the rifleman in perfect practice, while its accuracy is such as to develop his highest skill. Every year I fire hundreds of shots from a Winchester Model 52 sporter, and I know of no other way to keep in good shooting condition. But while relying upon the .22 rim fire as the practice arm, many of us want a rifle of equal accuracy, more power, and greater range. As vermin shooters, we crave something that will reach out 200 yards or more to tumble a "harmless" hawk from his perch high on the top of a dead tree, to flatten out on the ground a wily crow as he pursues his favorite pastime of pulling corn, or to end the career of a sly old chuck as he rears up before plunging into his burrow. As hunters, we yearn for something that at 200 yards or more will surely bring the wary wild goose to bag, will cause the wisest of them all—the lordly hermit wild gobbler—to hear and heed the last summons, or in a pinch at shorter range will lay low the crafty white-tail buck. The requisites of this rifle of our dreams are gilt-edge accuracy, flat trajectory, constant zero, ample killing power without mutilation, absence of recoil, mild report, freedom from ricochets, and low cost per shot. Bear in mind, this is not a rifle for a specialist, but a rifle for the average hunter, principally in the flat settled regions of this great country. Such a rifle would be equally useful in the vast swamps and cut-over lands of the Carolinas, and on the wide blue-grass pastures and meadows of the Virginias.

In an effort to supply the well-nigh universal demand for such a rifle and cartridge as have been described, the arms and ammunition companies have given us the wonderfully accurate .22-caliber Hornet cartridge, and a line of superb rifles to handle it. The wide and sudden popularity of such cartridge and rifle demonstrates more than words a wide-spread desire for an all-purpose rifle of this type. This .22 Hornet is without doubt the best *commercial* general-purpose rifle of medium power that we have today, but it falls below our ideal of what a rifle of this class really should be. It is a great cartridge, but it is not a wind-bucker, is not reliable beyond 175 yards, and is rather fickle as to maintaining its center of impact. Despite its remarkable virtues, these defects disqualify it from attaining the standard of our ideal medium-game rifle.

My opinion of the Hornet is based upon actual experience in the game fields as well as at the target, and if firing hundreds of rounds means anything, I feel that I know something of its capabilities as well as its limitations.

After I had experimented with several Hornet rifles, and had found all of them more or less unsatisfactory, the Winchester 54 was announced, and I immediately bought one. With this in hand I determined to put the Hornet through the paces. This rifle was to be used exclusively with a Lyman 5A scope with Fecker mounts, so was ordered without the 48 rear sight. When it came I sent it to Fecker, and had him mount the telescope bases, one on the rear bridge of the receiver and the other 6.5 inches from it on the barrel. These are the proper locations for the bases if the 5A telescope is to be used most effectively in all shooting positions; and this, in my judgment, is decidedly the best telescope to use with such rifle, especially if it is equipped with a Fecker rear mount. I do not find four-point-suspension mounts satisfactory on a hunting rifle.

My next job was to restock the rifle with a high-comb cheek-piece stock of good grade French walnut. The barrel and action were very carefully bedded, and the rifle proved to be exceptionally accurate with such stock. I decided, however, that I would prefer a Monte Carlo stock with Howe concave-pattern cheek-piece, so I sold both of my stocks and ordered a good blank from Bosley, out of which to make another. I took particular pains with the inletting and fitting, and the result is the most perfect stock and one of the most satisfactory rifles that I have ever used. This stock follows the general lines of those shown in Figures 56 and 72 of Howe's "Modern Gunsmith," with drops from line of bore of  $\frac{3}{8}$ " at the comb,  $\frac{3}{4}$ " seven inches back from the comb, and  $1\frac{3}{8}$ " at the heel. The point of the comb is  $2\frac{1}{4}$ " from the upper tang, and the stock is  $13\frac{3}{4}$ " long from the center of the trigger, with a pitch of exactly 3 inches. The fore-end extends  $18\frac{1}{2}$ " from the trigger, with a depth of  $1\frac{1}{16}$ " by a width of  $1\frac{1}{16}$ " at the front end of the guard, and a depth of  $1\frac{1}{32}$ " by a width of  $1\frac{1}{16}$ " at the tip.

It has the plain English tip, and is of baseball-bat shape, which I personally prefer to the beaver-tail type. The well-curved pistol grip is of Wundhammer pattern, with the front edge of the horn cap  $3\frac{3}{8}$ " from the center of the trigger and  $4\frac{3}{8}$ " below the top edge of the fore-end projected backwards.

The rifle so equipped has two remarkable characteristics. In the first place, it is the only Hornet rifle I have ever seen that will hold its zero. I have shot it

bag rest to strike one inch above the point of aim at 100 yards. The following loads were then fired with the sight setting so obtained, to-wit:

Charge Powder		Bullet		Primer	Velocity
No.	grs.	No.			f.-s.
1	9	1204	35 f. j. Sisk	116 Win.	
2	10	1204	40 f. j. Sisk	"	
3	11.3	2040	40 f. j. Sisk	"	2860
4	Winchester				
	factory load	45	grs. s. p.		2400
5	Winchester				
	Super-speed	46	grs. s. p.		2625
6	Western Super-X	46	grs. s. p.		2625

The windage setting proved correct for all six loads, while the elevation proved correct for No. 1 at 75 yards, No. 2 at 100 yards, No. 4 at 150 yards, Nos. 5 and 6 at 175 yards, and No. 3 at 200 yards.

During the past two seasons I hunted quite extensively with this rifle, and have also carried it quite frequently on trips made in a car. My records show that during the last eighteen months I have killed with it scores of hawks and crows, many doves and squirrels, and five wild turkeys.

The 35-grain load, designated as No. 1 above, is ideal both for squirrels and for doves, as it is superbly accurate, kills instantly, and

#### Road on ridge in river swamp

will not tear. With it I once killed five doves in succession (some of them young but full-grown) at ranges varying from 50 to 100 yards; and, although in some instances the bullet passed through the breast, not a bird was in any way mangled. I have also shot a number of squirrels with it, both young of the year and tough veterans of many years, and it always killed instantly and without smashing them up. On the other hand, I have never found a load with the 40-grain full-jacketed bullet that is suitable for such game. A charge of even eight grains of 1204 powder behind this bullet blows a squirrel to pieces. Perhaps this is due to the difference in shape of the two bullets, as the 35-grain has a more rounded point, and hence is not as apt to turn over when it strikes flesh, and buzz through, as is the sharp-pointed 40-grain bullet. But whatever the cause, the facts as to the difference in effect of the two



continuously for months with no change in the telescope readings, and it has shown no appreciable variations, even though the telescope has been frequently removed and replaced. In the second place, it handles all loads with the same telescope setting.

Using the 2400 f.-s. soft-point factory load, which we will call No. 4, it was sighted-in on a shooting bench with sand-

bullets on small game are as I have stated them.

The 40-grain load, designated as No. 3 above, is extremely accurate in the Model 54; but I have found no other Hornet rifle that will handle it successfully. I load it, as well as all Hornet reloads, by resizing the cases in a full-length resizing die operated in a heavy vise, seating the bullets with a B. & M. straight-line seater. In this load, Winchester No. 116 primers and Winchester or Western Super-speed or Super-X shells are always used. In the Model 54 I have found this to be decidedly the best vermin load—much better than the high-speed factory loads, and with it have killed hawks and crows, in some instances, at distances considerably in excess of 200 yards.

While most excellent for vermin, however, it is no good for wild turkeys, as I learned to my sorrow. During the hunting season I had occasion to travel a highway traversing miles of rather dense woods. While passing through a grove of oaks, a glance out of the car window

#### *Good turkey country*

disclosed a fine bunch of turkeys busily scratching for acorns. I stopped as quickly as I could, slammed a cartridge into the chamber of the Model 54, and pushed the muzzle out of the window, fully expecting to gather in at least one bird from this flock. But in my excitement, and in the hurry to shoot before the birds should be frightened away by two other approaching cars, I missed clean a neck shot at 100 yards. They flew about a quarter of a mile, into some large pines in a swamp; so I drove along slowly, and, as I went, scanned the trees for turkeys. Finally I discovered a fine young gobbler standing erect in the top of a tall pine. He was fully 150 yards away; but, judging by its effect upon hawks and crows, I felt that the high-speed 40-grain load would be the very thing to accomplish his certain demise. So I pulled off the road, carefully aligned the Lyman 5A on his back, and pressed the trigger. At the crack he came rolling down the tree, and I went in to do the retrieving. I sloshed around in mud and water,

crawled through bamboo briars, and peered under smilax vines and bay bushes, but no gobbler did I ever find. Reason: that little jacketed bullet went right through him without giving the proper shock, and as a result he ran off even though mortally wounded. So I learned my lesson, and never again will I use a full-jacketed Hornet cartridge on such desirable game as a gobbler.

The next time I had occasion to use the Hornet on a turkey, results were more

turkeys feeding in the open woods just beyond its rim. Instantly I dropped to the ground and, taking advantage of the cover, crawled to a large tree. Peering around its trunk I was delighted to find that the turkeys were still there, and undisturbed. The rifle was already loaded with a Super-speed hollow-point cartridge, and when it cracked a young gobbler went down for keeps. The distance was just 102 paces, and the hollow-point bullet drilled a clean hole through him without destroying any meat.

Later in the season my shooting pal, Tom, and I were hunting turkeys in the river swamp. I had roosted a flock the previous evening, and had scattered them without getting a chance for a successful shot. Since they were scattered, by all the rules of the game these turkeys should have come to a call the next morning; but turkeys do not always do what is expected of them—and therein lies the fascination of hunting them. Upon this occasion I was using a pipe with a wing-bone mouthpiece, which is just about the last word in effective calls, and I had an exciting half hour shortly after sunrise with turkeys yelping all around me. But no call yet devised can compete with an old turkey hen, and despite my most seductive pleading, the old hen gathered the entire brood of fully-grown young without allowing a single one to come in range of me and the Hornet. Finally I caught a glimpse of the assembled drove as they paraded across an opening some 200 yards away, and knew that, so far as they were concerned, my chances of getting a turkey that day had gone a-glimmering. So, somewhat wounded in pride at being outwitted again by a wise old turkey hen, I decided to call it a day; and, reluctantly shouldering my rifle, started for camp. I had walked but a short distance

satisfactory. On the opening day of the past season, after suffering the disappointment of seeing a flock of turkeys run off, and enjoying the thrill of killing a rattlesnake, I entered a long, dry cypress pond. Cypress leaves make no noise under foot, and the trees were sufficiently thick to furnish a screen, and I had slipped nearly through the pond when I saw a flock of

when a young gobbler sailed out of a tree, and finally settled in a pine about 300 yards away. Instantly I was all attention, and resolved to bag him if possible. Putting a tree-trunk between us, I succeeded in approaching to within 225 yards of him, but could get no nearer without being seen. I felt that the range was too great, but decided to take a chance by



using a Super-speed hollow-point and holding high. But he spared me the chagrin of a miss, for just as I had settled down prone behind that tree and was bringing the cross hairs to bear upon his body, his eagle eye made me out, and he plunged forth on swift and powerful wings, to freedom and safety. Disappointed as I was I could not help but admire the quickness and sagacity of such a creature, as I watched him sailing majestically away through the great trees of the vast river swamp. I had not fired a gun, but I considered that my hunt had been a success. I had found my turkeys and they had responded to my calls, but they had outwitted me at every turn, as their kind have done many another hunter if he were but honest enough to admit it,—all of which had served to increase my respect for their craftiness and intensify my love for their hunting.

But I was destined to get a turkey that day after all. While on my way out of the swamp I heard Tom shoot about a quarter of a mile away, and looking in that direction I saw a turkey coming in my direction. This turkey alighted in the top of a huge sweet gum, but fortunately in plain view. I dropped to the base of the big cypress beside which I was standing, and holding on the butt of the wing, sent a Super-speed hollow-point on its way. The turkey crumpled as if pole-axed, and tumbled to the ground. The bullet had passed through the body, emerging at the upper part of the breast, without destroying any meat. Though I did not pace it, as I usually do, I am sure the range in this instance was more than 150 yards.

As proof of the reliability of this particular Model 54 Hornet with different loads and the same scope setting, I may say that on my homeward trip I knocked a redtail hawk out of the top of a tall tree at a distance of 125 yards, using for the purpose the 2400 f.-s. soft-point factory load.

A week or so later I called up a drove of five turkeys, and killed the leader instantly with a shot straight through the breast with the 2400 f.-s. soft-point factory load, and it too caused no tearing.

Based upon actual experience, therefore, I could not ask for a better turkey rifle than the Hornet at ranges up to 150 yards. Beyond that I would not consider it always reliable.

In rifles that will handle it properly, the high-velocity 40-grain load is reasonably sure on vermin up to 200 yards on

calm days, but I would place its certain limit at 175 yards. On one occasion I killed three hawks in succession with it, the nearest at 165 paces and the farthest at 180 paces; while on another occasion I missed with it a hawk at 150 yards, and then killed it with the next shot at 225 yards. Another time with it I tumbled a redtail hawk out of a tall cypress at 145 paces, and repeated the performance when the mate sailed up to see what had happened.

Yes, I shoot hawks, not only for the fun of it but for the conservation of game, and I intend to continue to do so until my eyesight grows too dim to see the cross hairs. I was born and grew to manhood on a large low-country plantation, and I learned the ways of hawks with game years ago. My observation and experience teach that the red-shouldered hawk confines its diet principally to frogs and snakes, and does no particular harm either to game or to poultry. Not so, however, the redtail, which seems to be the special pet of the so-called experts on the ways of hawks. On the plantation I have known many a full-grown chicken to meet its end through the talons of a redtail, and on one occasion a pair of these "beneficial" marauders killed nineteen nearly half-grown domestic turkeys in which I had an interest. A few years ago I saw a pair of redtails kill eight grown turkey hens in just about as many days, and they would certainly have cleaned out the entire flock had their careers not been cut short by two well-placed charges of number sixes. I have often seen redtails hunt the bob-white partridge, and crowning infamy of it all, I have seen a grown wild gobbler killed by a redtail. Hence it was no news to me when the Editor of *Field and Stream* reported in the May 1936 issue of his magazine that the so-called beneficial hawks, including the redtail, ignoring the gophers upon which their apologists claim they live, were wreaking havoc on game birds of every kind on the prairies of western Canada. For forty years I had known that this was to be expected.

Our game preserve of some thirteen thousand acres would easily support and afford ample range for at least one thousand wild turkeys, but despite our utmost efforts to protect and increase their numbers, it does not now support a hundred. This preserve is infested with a plague of foxes, hawks, owls, and crows, so the wonder is that game of any kind survives, much less turkeys. Game and vermin can no more co-exist on the same land than can two bodies occupy the same space at the same time. When in two weeks' time you find the carcasses of several wild turkey hens freshly killed and eaten by vermin—most likely redtail hawks and great horned owls—and when you see a splendid old gobbler pulled down and his bones picked clean by a pair of foxes, you are not much of a sportsman if you do not thereupon swear revenge upon all species of vermin. This is just what I have done, and this is the reason that a rifle goes along on nearly all of my trips. I do not pass up chances to make hawks, crows, owls, foxes, and all other of their ilk good by the bullet method.

Two of the most satisfactory shots I ever fired with the 40-grain high-velocity Hornet load were at hawks. The first took a redtail out of the top of a tree some 200 yards away, and when a negro brought him in his claws were covered with clotted blood in which were embedded the hackle feathers of the domineering rooster he had stolen the day before. The second smashed a Cooper's hawk at 175 yards as he sat bolt upright in a high poplar overlooking the scantily-filled hen yard of a poor negro.

I have used the Hornet sufficiently, on both game and vermin, to appreciate it fully, and until the factories give us something better, I intend to continue to shoot it. But it is not by any means the best rifle of its class that it is possible to produce. It is the best commercial rifle of such class, but it would not be if the arms and ammunition companies would but do their part. The .22-3000 Lovell Cartridge, made by necking-down the .25-20 Single Shot case, will do everything the best Hornet will do, and in addition will do things the Hornet can never do. This Lovell or super-Hornet comes nearer

to the standard we have set for a real all-purpose vermin and medium-game cartridge than any other of which I have knowledge, and in my next article I shall endeavor to give the facts upon which such opinion is based.



# Will Long Shotgun Barrels Come Back?

By A. P. CURTIS

**B**LACK powder was the only propellant used in firearms, from the first German Culverin of about 1380, until Captain Schultz invented nitro powder in 1862,—a so-called "smokeless" powder that soon became popular.

Black powder, because of its slow burning, or progressive combustion, evidenced by the belching of hot powder granules from a gun's muzzle, brought about excessively long barrels, the idea being to confine the burning powder until it had imparted all of its energy to the ball or shot charge. Also, in the erroneous belief that the pressure was distributed over a considerable length of barrel, barrels were not only made excessively long, but the metal in the walls at the breech was much thinner, and at the forward portions thicker, than is customary today. However, soon after Rodman developed his pressure gauge, gunmakers began to realize the necessity of making the breech ends of barrels thicker, together with the permissibility of making the muzzles thinner, as it was found that all powders, even the progressive-burning, developed their maximum pressures in the breech end of a barrel, the pressure falling off rapidly as the shot traveled toward the muzzle.

These long-barreled guns have in the past been credited with wonderful shooting qualities, but the length of the barrels did not add to their accuracy and good patterns as much as the fact that they were muzzle-loading, and therefore had no chamber or forcing-cone to disturb the shot column by elongating and reforming it under great pressure, as is the case with breech-loaders. Also in their favor was the much lower pressure on the wadding than is necessary in the factory loading of shot shells to insure their withstanding rough handling during transportation without the loosening of the components.

The difference between the throat diameter of the chamber of a 12-gauge barrel (.801 inch) and the true bore diameter (.729 inch), is .072 or approximately 5/64 inch. This is reduced somewhat by the thickness of the paper tube of the shell: approximately .035 inch; but there still remains about .040 inch of raw steel in the form of a truncated cone that has to be contacted by the outer shot pellets, as the thickness of the paper tube is reduced fully one-third by the enormous pressure developed in firing. Not only are these contacting pellets subject to deformation, but many of those in the center of the shot column are deformed by the violent regrouping and never reach the target, but go off at a tangent, or "wild." Muzzle-

loading guns, not having this detrimental constriction to interfere with the distribution of the pellets, naturally gave shooting performances much better than is possible with breech-loaders. It is a matter of record that choke-bored muzzle-loading shotguns could place the entire shot charge within a 30-inch circle at 40 yards.

Soon after the advent of the smokeless nitro powders, either Schultz bulk or Nobel's Ballistic dense (1889), gunmakers found it necessary to change the then-prevailing construction of their breech-loading barrels, as with these quicker-burning powders the combustion was completed in a much shorter barrel length. This redesigning called for a distribution of the metal such as would give much thicker walls at the breech or pressure area, and correspondingly thinner walls at the forward end. The action of smokeless powders being more sudden or dynamic than that of black powder, the maximum pressure occurs in a smaller space, and therefore thicker barrel walls were necessary; breech pressures amounting in some cases to as much as 12,000 pounds per square inch, while in the forward half of the barrel the pressure is practically nil.

During this redesigning of barrel tubes it was found that as good results could be obtained with shorter barrels and nitro powders as the long barrels gave with black powder. And then, and only then, was serious attention given to the matter of a gun's proper balance, it now being possible to get balance without boring holes in the stock under the buttplate, and filling with several ounces of lead.

Soon after the introduction of shorter-barreled, better-balanced guns, for nitro powders, some of our factories introduced lightweight or "Featherweight" guns for upland game. The bringing out of extremely short-barreled or so-called "brush" guns has often erroneously been credited to sportsmen insisting upon very short barrels so that the guns could be handled freely in thick cover; but when any tree growth is so dense that a gun of any barrel length—even 36 inches—cannot be handled without difficulty, one can rest assured that the brush is so thick that he could not see flushed game long enough to get a shot at it. The real and only reason the short-barreled gun is popular in hunting is because of its balance and self-pointing features, and its lightness.

Now that we have progressive-burning nitro powders, the question is often asked: "Will gunmakers again have to make their barrels long to insure confinement of the

burning powder-grains until they have imparted all possible energy to the shot charge?" The answer is no, because though these new nitros are classed as progressive or slow-burning, complete combustion takes place much quicker than it does in the case of black powder.

In 1914 duPont introduced a new progressive-burning nitro powder for military rifles, that gave greater velocities than were possible with the older nitros, with no material increase in breech pressures. The success of this rifle powder resulted in experiments with a new nitro solely for shotgun use, and in 1932 duPont announced a regulated, slower-burning nitro than either the bulk or dense powders then in common use; though it was not as slow as slow-burning black powder. It was a clean-burning, moisture-resisting (or non-hygroscopic) powder that fitted in admirably with the non-corrosive primers then in general use; and although a greater velocity is possible with it, the pressure is not materially increased in the bore, as the maximum pressure takes place in the shell chamber and the bore closely adjacent to it. Therefore, the barrels designed for the older nitros are adapted also for the new progressive powders.

These new powders give increased velocity without any detrimental effect upon patterns, which could not be said of the older nitros, with which any increase in the velocity of the shot charge, whether acquired by reducing the weight of the shot charge or increasing the powder charge, was invariably at the expense of the patterns.

Though higher muzzle velocities are possible with these new powders, the muzzle blast is not as great as with the older quick-burning nitros; and evidently this lesser muzzle disturbance has a correspondingly less detrimental effect upon the shot column, as better patterns are the general rule. Especially is this true with the larger sizes of shot. This is also due to the way the shot pellets are "eased" into the bore without undue deformation.

Perhaps the best way in which to illustrate how the shot is put into motion and more slowly forced into the bore, with less pellet damage than is possible with the older nitro powders, is to give a slow-motion word-picture of what takes place when a shell is fired. The firing pin crushes the priming mixture between the primer cup and its anvil, detonating it. This in turn ignites the nearest powder grains, and these ignite adjacent ones, and

(Continued on page 32)

# Just a Few Reminiscences

## An Open Letter

Last Gasp Rancho,  
Salmon Arm, B. C.

Dear Mr. Hathaway:

I read with unusual interest your article in the June RIFLEMAN on the Sharps carbine and the twelve-pound Sharps .45-70 rifle.

Nearly fifty years ago an older brother and I owned a carbine, practically new, exactly like the one you wrote about. Like yours, it shot high. Just how much too high I do not now remember, but I do know that when my brother had it sighted-in for 50 yards it had a front sight as high as those on many of the high-power rifles of today. Kick? Say, Mister, Maud's kick would by comparison be but a gentle push! Just how accurately it shot I cannot tell you now after so many years, but I do know that a friend took that Sharps to Wyoming with him in the latter eighties, and killed just about all kinds of big game with it.

It, like all Sharps, had an action which was entitled to be called "Old Reliable,"—first, last, and all the time. I never considered any of the side-hammer Sharps as neat in appearance as some of the other single-shots, such as the Remington rolling block, Remington-Hepburn, Ballard, and the Winchester; but the Sharps, like the Model 1873 Winchester, was one of the most famous rifles the world has ever seen.

Your Sharps carbine uses the .50-70 Government cartridge. We had at different times four Springfields of that caliber; and, later, .45-70, in both musket and carbine models. At the time we had our first .50-70, which was the one we shot the most, much of our shooting was with round balls. And of this I shall briefly mention that, using such a bullet in that gun, and, as I recall, sixty grains of black powder, that old Springfield gave better accuracy than I have seen with any other breechloader with round ball. This may have been due to the old Springfield having a slow twist and deep rifling, and to the fact that we used a very tight-fitting bullet. What was its diameter? I do not know, as micrometers we had not. But it fitted the barrel at the muzzle very closely, and when patched and loaded in the fired shells—which expanded upon firing sufficiently to take a bullet considerably larger than the factory bullet—that patched, round bullet gave a very tight fit when passing through the barrel.

My brother made an open rear sight

from a piece of buffalo horn, and a front sight from a piece of ivory cut from a billiard ball. The target was a 2-inch disc of white paper on a tarpaper background, a tack in the center of the disc, distance 40 yards, shooting from rest. I have only memory to write from now, but I am as sure as can be that after he had the sights adjusted to suit him my brother would drive the tack most of the time; and the misses would be very close ones. Driving the tack as often as he did with that old .50 was easier than with a .22, the big .50 covering a lot of territory. The trigger pull of the Springfield and the Sharps was very hard, as was the case with all guns of their class of that day; but it was always smooth.

I never used a .50-caliber rifle of any kind on big game, but have talked with a good many hunters who used the .50-70 Sharps and Remington rolling-block, and the .50-95 Winchester Express, and they all told the same story: the rifles invariably proved very deadly on all kinds of big game. I might add, incidentally, that they did not like the hollow-point .50-95 bullet, as there were times when it failed to give the desired penetration. The solid bullet suited them much better.

In my haste to tell you a few things about the .50-70 Springfield I failed to mention how we got our round bullets for use in same. My brother, who was pretty handy at odd jobs, made the mould from a block of chalk-like rock which was very plentiful in southwestern Kansas, where we then lived. This rock was harder than ordinary chalk, but soft enough to be easily cut with a knife or sawed to almost any desired shape. A block four or five inches square was used for the mould. From side to side four holes were drilled entirely through the block, one near each corner. Then the block was sawed through the center and wooden pins fitted closely in the holes. The pins in one side of the block fitted just loosely enough so that half of the block would slide freely on them, and permit an opening and closing of the two halves of the mould. With the pins in place the two halves were slowly closed as the cherry, turned with a carpenter's brace, cut easily into the soft stone. And, so far as the eye could determine, the bullets cast in that mould were perfectly round.

Fifty years or so ago there were plenty of firms having *real* gun departments. John P. Lovell & Sons was one, Mont-

gomery Ward & Company was another. During the eighties M. W. & Co. advertised about everything in the gun line by such noted firms as Winchester, Marlin, Stevens, Colt, Smith & Wesson, Merwin & Hurlburt, and Remington, as well as a long line of cheaper arms. Toward the last, if my memory is to be trusted, Winchester Model 1873 rifles and Colt Single Action revolvers were quoted at under \$12. The new Model Remington revolver made for the .44-40 Winchester cartridge was quoted at around \$8. Then there was an alteration Remington revolver using the .46 rim-fire short cartridge, and the Ballard Kentucky rifle for the .46 short and long rim-fire ammunition. Also a .45-70 Springfield *hunting* rifle with 30-inch heavy octagon barrel. The action seemed to be that of the regular Springfield. The rifle had sporting open sights, and weighed, as I remember, about 9½ pounds.

Model 1881 Marlin rifles (there was but this one model made until the Model 1888 appeared) for the .32-40 and .38-55 cartridges, and a heavier rifle for the .40-60 Marlin and .45 Government cartridges, were quoted, I believe, at \$28. If I remember right, we paid \$17.60 for our .45-60 Model 1876 Winchester, and \$3 for a complete Winchester reloading outfit. This was in the fall of 1884. Many will no doubt smile, but to my eye that Centennial Winchester was, and still is, a beautiful rifle. Heavy and long, yes, but all gun, from butt to muzzle. Shot-guns, both muzzle-loading and breech-loading—many of the former of English make, holsters, cartridge belts, component parts for all the most popular arms then made, hunters' clothing, etc., etc.—all were advertised by Montgomery Ward. It is doubtful if any other firm at that time as far west as Chicago sold more of the things I have mentioned than they did.

This hastily-written letter may breathe an air of "Backward, turn backward" in its mention of the firearms of half a century ago. But, having owned and used my share of them, and also of the more modern arms, I believe I have a pretty fair idea of their relative value; and in spite of the advantages of high velocity and flat trajectory, it would be hard to convince me that better-made or more beautiful guns can be had today than those whose fame reached far and wide in the days of which I write.

Sincerely yours,

ASHLEY A. HAINES.

# African Notes on Bullet Performance

By WILFRID ROBERTSON

ONE of the most interesting studies connected with rifle shooting is that of the bullets after they have been fired. A great many hunters of big game never take the trouble to search for and cut out the missiles with which they have killed their quarry, reckoning that once a bullet's job is done there is no point in giving it a second thought. It is true that frequently the projectile passes clean through the beast, and in consequence is lost irretrievably; but, if the bullet has remained in the meat, the firer of it can learn much by recovering it, and noting carefully its condition.

A generation ago, in the days of the rifle firing an unjacketed bullet of solid lead, a study of the expended missile was of little importance. At the present time, however, with high-velocity weapons of both large and small calibers, firing nickel-jacketed cylinders of solid-tipped, soft-nosed, copper-pointed, or split varieties, there is a very wide divergence in performance between the respective types.

It has been my habit, during twenty years of big-game shooting in Africa, to examine all available bullets taken from my kills; and this practice has taught me much. It has instructed me as to the best types of projectiles to use on the different species of game, and in consequence I have been able to attain a far greater percentage of clean and instant kills—the true hunter's constant aim—than would otherwise have been possible.

As every African hunter knows, bullets fall naturally into two categories: the solid-nosed projectile, entirely coated with nickel, and the soft-tipped or expanding type which is intended to break up in its passage through a beast's body, severing in its course many veins and arteries, and causing a quick kill. The first-named is designed for great penetration and the slaying of pachydermatous mammals, while the other is intended for encompassing the demise of soft-skinned fauna.

In theory, the hard-pointed missile should not break up when passing through hide, flesh, and bone; but in practice this is by no means always the case. Its performance is governed much by the obstacles which it encounters in its path, and the angle at which it strikes them. Bore of rifle, weight of bullet, and driving-force behind it also have their say in the matter. Though usually the hard-nosed missile (if it has not penetrated clean through the animal) will be found little damaged by its impact, at times it will shatter itself almost as much as a soft-tipped projectile would have done. The habits of bullets can be as erratic as those of women!

Figures 1 and 2 show hard-pointed bullets fired from a .450-400 express rifle. Fig. 1 shows a bullet with which I killed a rhinoceros with a single shot. Though it passed through about four feet of solid flesh, bone, and muscle, it was found scarcely to be damaged; indeed, it would almost be possible to use it again. Fig. 2, on the other hand, shows an exactly similar bullet taken from a buffalo, which I also killed with a single shot. Though a buffalo cannot be classed as a pachyderm, and does not possess bones of the size and resistance of a rhinoceros, the missile was smashed almost as much as a soft-nosed one would have been. The top was torn off, the jacket was split, and the whole bullet was flattened on opposite sides as if it had been squeezed under terrific pressure.

A bullet that passes slick through a beast and knocks up a spurt of dust on the far

the other from a sable antelope bull; both large animals standing between four feet six inches and five feet at the shoulder. These bullets are perfect examples of expansion, having stubbed-up into objects three times the diameter of their original caliber, without disintegrating into several pieces as is sometimes the case. Both projectiles were found lodged under the skin of the beasts on the far side from which they had been struck, having expended every ounce of energy in the work for which they were designed.

Unlike similar missiles from smaller bores, which are liable to break up badly upon impact and lose penetration power almost instantly, soft-pointed bullets fired from a heavy caliber have a tremendous reserve energy even after they have driven into an almost shapeless lump of lead and nickel. I remember once firing at a zebra, one of a troop of these animals, and the beast at which I fired fell dead. All of the other members of the troop galloped off, save one. This last remained motionless with his head hanging, looking very sick, and for the moment I could not understand what ailed him. Upon my approach the zebra which had puzzled me hobbled off a few paces, and fell. Upon examination I found that my bullet had passed clean through the zebra at which I had fired, and, knocked into a fist-like lump of metal by its passage through this beast, had driven home in the shoulders of the one behind it, making a huge hole. Not only that, but it had also sped right through the second animal, to bury itself in the landscape beyond. Some punch for a soft-pointer!

Now to turn to expanding bullets from smaller bores: projectiles made to fit calibers in the neighborhood of .30. Excepting for the smallest of antelope, I personally have no use for the average soft-pointed bullets that are manufactured for these rifles. I have found that almost invariably these missiles break up far too quickly upon impact, splintering and losing driving power almost on the skin

(Continued on page 31)

FIG. 3

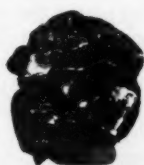
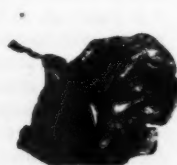


FIG. 4



side, has used only half its energy on the task it has been set to do. Expanding bullets—nickel-jacketed except for the nose—were therefore invented for use on soft-skinned animals like antelope; missiles designed to stub-up and increase in diameter upon impact, and utilize their whole energy in tearing as large a wound as possible inside the beast.

The two expanded lead-nosed bullets shown in Figures 3 and 4 were fired from the same rifle as the solid missiles previously mentioned; i.e., a .450-400 double-barrelled express. One of them was cut from a roan antelope bull that I slew, and

FIG. 1

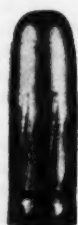


FIG. 2

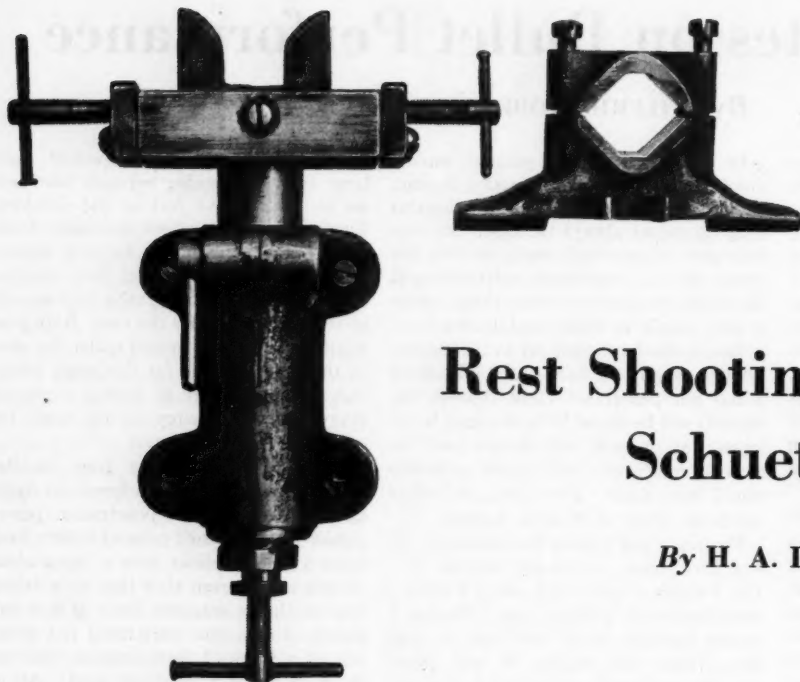


FIG. 5



FIG. 6





*Machine rest made by Harry Pope, and used by fastening to top of shooting table, rifle being free to recoil*

## Rest Shooting and Schuetzen Loading

By H. A. DONALDSON

**U**NIFORM and complete ignition of the powder charge in Schuetzen loads has more influence upon the accuracy obtained than has any other one factor. The burning rate of any powder charge may be altered by a change in the ignition. With the proper selection of primers or the use of certain powders in priming charges, this matter of ignition may be kept under control. When the shooter understands all this, and is able to secure uniform ignition, he is well on the road to small groups.

With modern primers it is easy to obtain satisfactory ignition, but it is well to experiment with different components, and the shooter will be repaid for more than passing study of this subject. Most of the powders usually employed in Schuetzen loads are very easy to ignite, and with such powders as Schuetzen, Semi-Smokeless, No. 80, or duPont bulk Shotgun Smokeless, no trouble will be had with ignition. However, it should be fully understood that these powders burn at a far different rate with the modern primers than with the older ones. Some of our double-base smokeless powders, that contain nitroglycerin, will be found to ignite nearly as well even as black powder. These powders burn at so nearly a uniform rate that they give great uniformity of pressure, and ignite easily no matter what the shape or size of the grains.

In some Schuetzen loads employing a light charge of powder in a large case,

ignition trouble may be had if the old low-power primers are used. The large air space dissipates the heat from the primer, and this condition is aggravated when the bullet is seated in the throat ahead of the case. In such cases conditions may be improved by the use of the more powerful modern primers.

All bulk powder should be carefully screened in order to remove the fine grains and dust particles that will be found in each canister. duPont bulk Shotgun Smokeless should be screened also for the purpose of having the grains uniform, for only in this way can the burning rate be closely controlled.

A good rule to bear in mind is that the most powerful primer will give the most consistent accuracy. Inaccuracy can in most cases be traced to faulty ignition, as from weak primers.

Proper lubrication is another important factor in Schuetzen loads. When some of the older powders are used, weather conditions will have a bearing upon the lubricant to be selected.

*Ten-shot 100-yard rest group made by author with .32-40 B-L Zischang rifle and 6-power Peterson scope, bullets breech-seated*

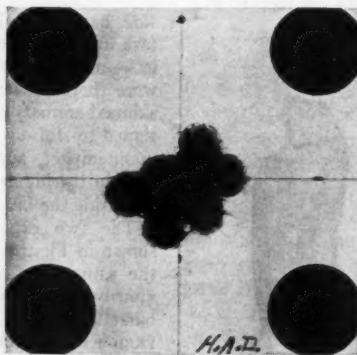
With some powders, greased wads are used in addition to the regular lubricant on the bullet.

When certain smokeless powders are used with soft lead bullets they will be found to fuse the flat bases of the bullets. Greased wads may be used to overcome this trouble, as well as to provide additional lubrication for the bore.

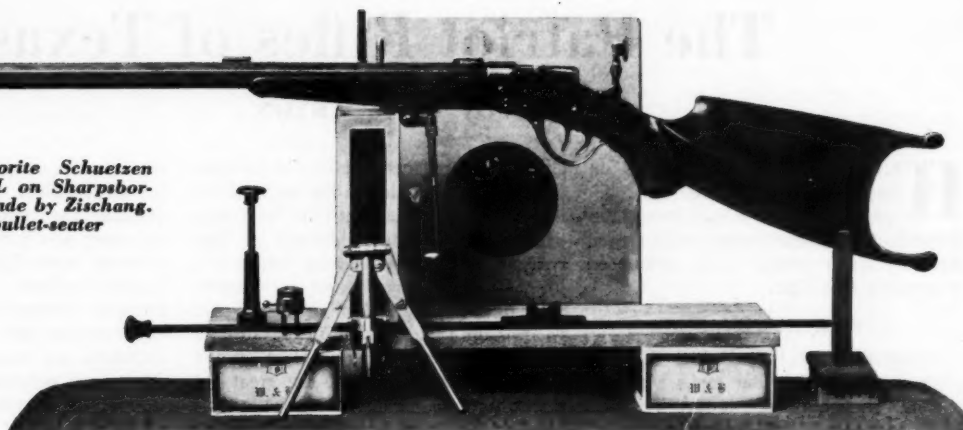
A weak mainspring or a faulty firing pin will cause uneven ignition; or the fly in the hammer may be responsible, when double set-triggers are used. With my own double set-trigger Schuetzen rifles I remove this fly from the hammer, and grind out the safety notch. This often improves the shooting of a rifle that has a tendency to string the shots up and down on the target.—Just another instance of removing an error to improve the groups.

One should go over the action carefully before testing out a strange rifle, noting particularly the strength of the mainspring. The flat mainspring as used

in the Winchester Single Shot action may often be improved upon and given increased strength by changing its position. This spring is fastened to a flat piece of metal dovetailed into the barrel. The face of this metal block can be filed off at a slight angle, to cause the end of the mainspring,



One of author's favorite Schuetzen rifles: .33-40 Pope M-L on Sharpshooter action. Stock made by Zischang. Pope mechanical bullet-seater



where it comes into contact with the toe of the hammer, to bear at a different angle, and increase the strength of the spring. The lock time may be further speeded up by drilling holes through the hammer to lighten it. The half and full-cock notches should be ground out, and a new one put in about half way between the original ones. When using the modern high-speed loads in this Single Shot action, the hole in the breech block should be bushed and a new firing pin fitted.

The stock should be fastened securely to the action with a long drawbolt through the length of the stock, which is screwed into a small block of metal held in position by the tang screw.

Any Winchester Single Shot action can be easily changed over to the Schuetzen double set-trigger, by obtaining the necessary parts from the Winchester Company. Be sure that the action and barrel are tight, and keep all dirt from under the extractor.

It is hardly possible in an article of this kind to cover properly the subject of bullet making. The Schuetzen shooter of today is again fortunate, in being able to purchase his bullets lubricated and ready for use. I know of nothing in the preparation of suitable Schuetzen loads that calls for more experience than the casting of bullets. The very best commercial bullets I have ever used are those furnished by H. Guy Loverin, of Lancaster, Massachusetts. He uses my own method of casting bullets, and I can recommend his product for the finest accuracy.

The shooter interested in making his own bullets should obtain the handbooks furnished by the

loading-tool companies. And I would advise anyone interested in Schuetzen rifles to collect all the good bullet moulds he can, such as were made some years ago by Pope, Schoyen, Zischang, etc. My own collection has often enabled me to obtain good results with rifles that were without moulds.

I use one very accurate muzzle-loading rifle that will make better groups with a bullet cast in a Zischang mould than it will with a bullet cast in the mould that was made for the rifle. Quite often a rifle will be found that has a barrel with over-size groove diameter. Where one has several moulds of different sizes it may be possible to select one that will cast a bullet of the proper size for such a barrel.

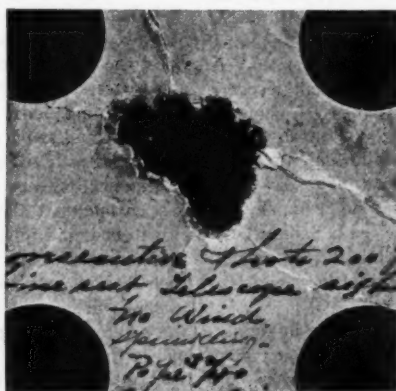
Nearly all of my Schuetzen moulds cast long bullets that are tapered from the base to the forward band. Such bullets are necessary when loading from the muzzle with a false muzzle and bullet starter. This same long tapered bullet will give good results when breech-seated in the barrel with a bullet seater. Quite often such a bullet with a base band diameter of .323 may be sized down in a Belding & Mull or Lyman bullet-sizing chamber, to .320 or .321, which size may shoot more accurately when the bullet is breech-seated. When bullets are sized in this manner care should be taken to size them base first; and the plunger used should fit the point of the bullet. My own Lyman sizing chambers are made in sizes from .318 to .325 inch, by half-thou-

When the proper bullet is selected, the front part is tapered and only the last band or two is sized cylindrical. These bullets seat easily in the barrel, and when used in this manner they will be found to give remarkable accuracy. A little care in the proper fit and selection of such a bullet will give improved results in even the ordinary factory barrel.

The cases used in Schuetzen loads should be marked on the rim so that they may be placed in the chamber in the same position each time. My own .3240 cases for use with black or Semi-Smokeless powder are chromium plated, which allows of their being easily cleaned. Such cases wear well and are easy to extract after long use. Each particular rifle should have its own cases, kept separate in a box made for this one purpose.

A shooter should experiment in order to find the load that will give the best accuracy in some one particular rifle. When this load is found it is well to stick to it, and use no other. But just because a certain load gives small groups in some one particular barrel is no reason to believe that it will perform as well in another rifle of exactly the same groove diameter. Do not be too easily satisfied with one or two groups. Try every possible combination, and note well the effect of small changes in the components. Only a slight change in the lubricant or bullet temper, or the use of a different primer, may mean the difference between an inch group and one of twice that size. That is one of the reasons why it is well to keep on each target, as the groups are fired, an accurate record of the load, with all of the conditions noted. This information is of no value unless it is put on the target at once, and it should give every

Ten-shot 200-yard rest group made by C. W. Rowland thirty-five years ago. No one has been able to equal this shooting with any modern rifle



sandths, and with their use I am able to fit a bullet to any size of barrel in .32-40 caliber.

detail possible.

My first article on rest shooting, about a year ago, illustrates my particular form of rest target. This target provides suffi-

(Continued on page 30)

# The Patriot Rifles of Texas

By T. B. TRYON

**H**AD you been in New Orleans on the morning of October 11, 1835, your attention would have been drawn to broadsides conspicuously posted on every street corner, which announced in letters a foot high:

## WAR IN TEXAS!

Volunteers from the United States are invited to join our ranks with a good rifle. Texas will reward by donations in land all who volunteer their services in her present struggle, and receive them as citizens.

## VICTORY OR DEATH!

\* \* \*

## A MEETING OF CITIZENS THIS EVENING AT EIGHT O'CLOCK IN THE ARCADE COFFEE-HOUSE

It concerns the freedom and sovereignty of a people in whose veins the blood of the Anglo-Saxon flows. Texas, the prairie-land, has risen in arms against the tyrant Santa Anna, and the greedy despotism of the Romish priesthood, and implores the assistance of the citizens of the Union. We have therefore convoked an assembly of the inhabitants of this city, and trust to see it numerously attended.

## THE COMMITTEE FOR TEXAS.

At the appointed hour the spacious Arcade Coffeehouse was thronged with enthusiastic public-spirited citizens in response to the appeal of the Texas Committee of New Orleans. A stirring speech was delivered by an able orator to the effect that the people of Texas, who were even then engaged in a struggle for civil and religious liberty, had a just and sufficient cause to take up arms against the revolutionary government which had been established in Mexico. A government which had imprisoned Texans without cause and detained them without trial, introduced vexatious regulations relative to passports and customs, and proclaimed martial law and attempted to disarm the Texans by demanding that they give up their weapons, retaining but one gun for every five plantations.

In short, he averred that the rights and liberties of the Anglo-Saxons of Texas had been trampled upon in every respect, and that further forbearance or submission would be ruinous and degrading; and therefore the people of Texas had pro-

claimed war against these acts of usurpation and oppression in the name of liberty. It was pointed out that the Texans had taken up arms in defense of their rights and privileges, having inherited a love of liberty from their forefathers; who, it was to be remembered, had risen to arms for a like cause in the days of '76. Now these liberty-loving people, he stated, looked to the freemen of the great Republic for support and assistance, as to a fond mother from whose breast they had imbibed the desire for freedom of conscience and the privileges of rational liberty.

He declared that it was a just and righteous cause, and one which merited the approbation and the financial, moral, and corporeal support of the magnanimous citizens of the United States.

He delivered lengthy encomia on the courage and hardihood of the Texan patriots, who though but twenty-seven thousand against eight million,—unprepared for war and without an organized government, disciplined soldiers, money, or anything else necessary for such a contest except dauntless hearts inspired by the great principles of liberty, their rifles, and a firm reliance in their God, had already made their tyrannical oppressors acquainted with the power that nerves the freeman's arm. He wound up by declaring that Santa Anna might annihilate, but he could never enslave, Anglo-American riflemen who had breathed the atmosphere of American liberty,—a patriotic people whose watchword was *Victory or Death!*

The results far surpassed the most sanguine expectations. One contributor—Sterne by name—offered to supply rifles for the first fifty volunteers. Two lists were immediately opened,—one for the names of those who were willing to volunteer their services to the Texan people, and the other for contributions of money; which latter amounted to ten thousand dollars before the meeting dispersed. A company of volunteers formed, received the proffered rifles, assumed the name of "The New Orleans Greys," and ascended the Mississippi the following afternoon on the steamer *Washita*. The day after their departure a second company of "Greys" sailed by sea, with Sabine Lake as their objective; while a third company, known as "The Tampico Blues," left for the port of Tampico.

Nor was New Orleans alone in supplying volunteers. American riflemen from the southern states and territories, and

even the upper Ohio valley, trekked into the Redlands of Texas to assist in vanquishing the tyrant. Among these adventurers was a company raised and led by none other than that noted rifleman, David Crockett. The *Arkansas Gazette* notes in November, 1835, that "Col. Crockett has left Little Rock, with his followers, for Texas. Many others had the same destination." The *Natchez Courier*, under the date of December 1, 1835, observes: "Judging from the immense immigration to Texas within the past month, from this quarter and from the reports of travellers, who state that hundreds are met upon the road every day, Texas will be able to boast of an army of 10,000 before January."

During the decade prior to 1835, hundreds of Anglo-American settlers crossed the Sabine, lured to a wilderness infested with warring tribes by the abundance of game, the rich soil, and the excellent climate. The majority of these men were backwoodsmen from the southern states and territories, inured to the use of the rifle and at all times prepared to use it in defense of their homes. Many had fought under Jackson in the Creek campaign, and at the memorable battle of New Orleans when the precision of the American rifle triumphed over Wellington's veterans armed with Tower muskets. The Americans who rallied in response to the Texan appeal for volunteers were, as we have before noted, for the most part from the middle and southern states and territories, and were therefore likewise well acquainted with the virtues of the rifle.

Therefore the arms chiefly used in this contest by the Texans and their auxiliaries from the United States were the long, accurate flintlock Kentucky rifles which Anglo-American riflemen had effectually utilized, to the exclusion of all others, for the better part of a century in defending their homes and country, as well as for hunting. Armed otherwise than with rifles, the Texans would never have been able successfully to engage, as they did, overwhelming odds, repulsing the Mexicans time and again with great loss to the latter but with little loss to themselves. In practically every engagement the Texans encountered the enemy at odds of two to one, and fought with a determination that only men who are fighting for their homes and country possess. The war was in general an exemplification of the determined valor and desperate courage of the volunteer riflemen of Texas, as well as a commentary on the efficacy of

the American rifle when wielded by the Anglo-American.

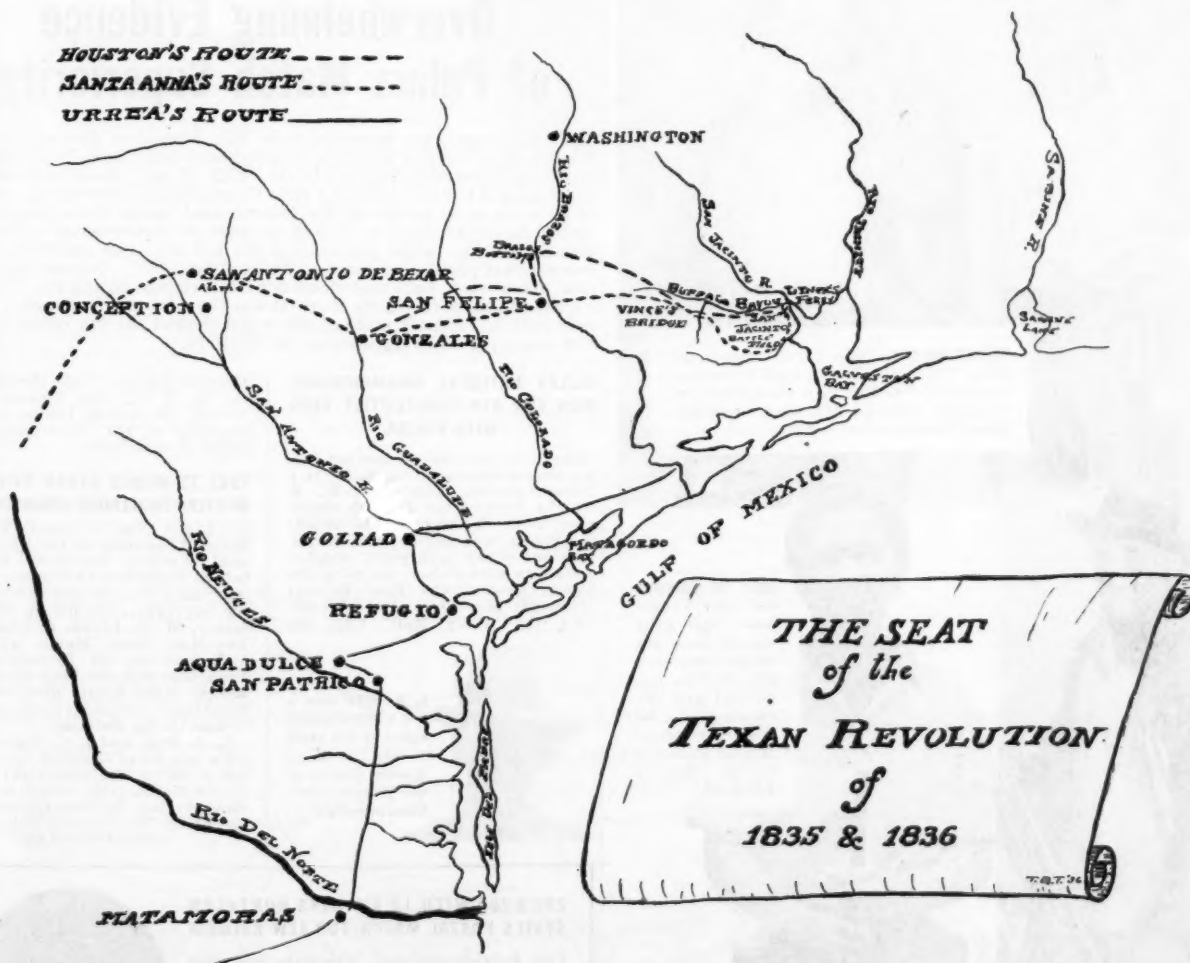
By way of comparison it is interesting to note that the arms of the Mexican infantry were generally condemned Tower muskets that had been turned out of the British service years before, with an occasional ancient Spanish bell-muzzled *escopeta*. The cavalry were armed with sabres and carbines, while the more formidable lancers—*corps d'elite* of the Mexican service, were armed with lances and machetes, and usually being superbly mounted were often marvellous equestrians.

The first part of the war was signalized by a series of glorious victories for the Texans. On the 28th of October, 1835, Col. James Bowie's command of ninety-two men was attacked at the mission of Conception by a detachment of Cos' army, consisting of several companies of cavalry and one of artillery with two pieces of ordnance,—amounting in all to four hundred. It was a decided victory for the Texans, whose rifles accounted for

nearly one hundred dead and wounded. The Texans captured one piece of artillery and a considerable stand of muskets, and had but one man killed and none wounded. On the 8th of November, sixty-seven Texans under Captain Bird encountered one hundred sixty Morelos cavalry (near Bexar), and after a severe engagement compelled the Mexicans to retreat with a loss of five killed and a number wounded, while the Texans had but one man slightly wounded. December witnessed the crowning victory of 1835, when three hundred Texan riflemen carried the Alamo by storm, compelling General Cos, with about fifteen hundred men, to surrender on the 10th of December. The Texans lost three killed,—one of whom was the brave Colonel Milam who led the assault, and about twenty-five wounded. The Alamo was the most important post in Texas, and was considered equal in strength to any fortified place in northern Mexico. With the capitulation of Cos, not a Mexican in arms was left in Texas, and there was a lull in the war for a time.

Samuel Houston, commander-in-chief of the regular army, found it difficult to maintain discipline. Prior to the taking of the Alamo he staunchly maintained that Cos, intrenched in the ancient mission, could not be taken without artillery. Old Sam was a conservative, and recommended falling back until organized, drilled, and supplied with suitable artillery. He tenaciously clung to this policy throughout the war,—a policy replete with wisdom, as the sequel depicts. But when Cos' fifteen hundred men surrendered to a force of Texan riflemen one-fifth their number, it was considered by many as a reflection on Houston's judgment, and an effort was instituted to remove him from office.

Col. F. W. Johnson, upon whom the command devolved when Milam fell in the assault on the Alamo, and Dr. James Grant, a Scotch surgeon who had been wounded in the assault, proposed a looting campaign in Mexico. Grant, self-styled Acting Commander-in-Chief, with the majority of the existing forces which



# Rifle Remington News



BRIDGEPORT, CONN. SEPT. 1936

A PAPER FOR PEOPLE WHO SHOOT

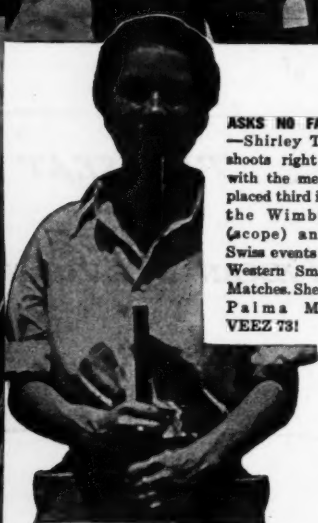
## CHAMPS OF THREE NATIONS WIN WITH PALMA MATCH!



**FATHER AND SON**—Mike Ljutic (right) is the pappy of Al Ljutic. Teamed together they won the Western Two-Man Team Championship at Richmond, California. Al is also the new individual Western States Champion.



**ASKS NO FAVORS!**—Shirley Turner shoots right along with the men. She placed third in both the Wimbledon (scope) and the Swiss events at the Western Smallbore Matches. She shoots Palma Match VEEZ 73!



**VIVA EL SEÑOR ADAMS!**—John B. Adams, San Francisco, is the new Mexican and Central American Champion. Read the complete story (right) of his triumph in the face of difficult conditions.

### Victories in Mexico, England and Western United States Provide Overwhelming Evidence of Palma Match Superiority!

John B. Adams, an American from San Francisco, dropped down to Mexico City for the Biennial International Rifle and Pistol Match with a few boxes of Palma Match VEEZ 73 and came back with the Mexican and Central American Rifle Championship. The match consisted of 30 shots at 50 meters on the International target. Since the Mexican system allows 10 minutes for 5 shots, then an "intermission" of 15 minutes for scoring—while you bask in the hot sun—this match developed into a test of physical endurance. Writes Adams, "... you can appreciate how much wind, light and cloud dope can change during the 2½ hours required to shoot the thirty shots. It was the most gruelling match I have ever shot in." Adams' score of 294 x 300 showed the sun couldn't upset him any ... or affect the accuracy of VEEZ 73.

#### BISLEY NATIONAL CHAMPIONSHIP WON FOR 9TH CONSECUTIVE YEAR WITH PALMA

Nine times in a row the coveted Bisley Grand Aggregate has fallen to a Palma shooter. This year W. V. Knight became the English champion, while G. Langdon, also shooting Palma, took second place. Seventeen out of the twenty-five matches were won with Palma, including the Dewar Course, the Earl Roberts Memorial, the "News of the World" Cup, the "Daily Mail" Cup, the

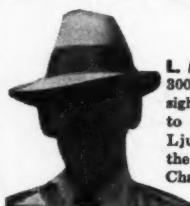
Bennett S.M.R.C. Life Membership, the B. S. A., the Vickers Armstrong, the British Legion and the majority of the "newcomers" and ladies' competitions.

#### VEEZ 73 MAKES CLEAN SWEEP OF WESTERN SMALLBORE CHAMPIONSHIPS

Al Ljutic was crowned Western States Champion at the Third Annual Western Smallbore Matches held at Richmond, California. Shooting VEEZ 73 he scored 889 x 900 in the aggregate, teamed up with his father, M. G. Ljutic, and took the Two-Man Team Match, and was high man on the Richmond Elks Team that won the Four-Man Team Match. Mike Ljutic also won the Wimbledon (scope division) and the Dewar (scope division).

L. A. Pope and L. C. Farnsworth did a nice job of shooting, too. Pope's 300 x 300 in the iron sight M. G. Ljutic Match (100 yards) is worth remembering. Farnsworth ran 45 of his VEEZ 73's into the bull to win

(continued on next page)



**L. A. POPE** shot a 300 x 300 with iron sights at 100 yards to win the M. J. Ljutic Match at the Western States Championships!

#### 200 X 200 WITH 10 X'S WINS NORTHERN STATES POSTAL MATCH FOR LEW BULGRIN

Lew Bulgrin of Owen, Wisconsin, certainly has something to be proud of in this target. It's a 20-shot possible at 200 yards that has no less than 10 x's. It was shot with Palma Match to win the 200-yard event in the recent Northern States Postal Matches.



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3. M. G.

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2. L. C.  
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(Iron)  
1. G. B.  
2. H. W.  
3. D. K.

M. G.  
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1. L. A.  
2. Al Lj  
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WIMB  
(Scope)  
1. M. J.  
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3. L. E.

SWISS  
(out)  
1. L. G.  
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**PALMA MATCH WINS  
IN THREE NATIONS**

(continued from page at left)

the Swiss Match.

Look over these scores! A clean sweep if there ever was one.

**WESTERN STATES CHAMPIONSHIP  
(An Aggregate)**

1. Al Ljutic	889	VEEZ 73
2. L. A. Pope	889	VEEZ 73
3. M. G. Ljutic	885	VEEZ 73

**DEWAR MATCH (50 and 100 yards)**

(Scope)		
1. M. G. Ljutic	399	VEEZ 73
2. L. C. Farnsworth	399	VEEZ 73

(Iron)		
1. G. Bordwell	398	KLEANBORE
2. H. Wright	398	VEEZ 73
3. D. Keteher	397	VEEZ 73

**M. G. LJUTIC MATCH (Iron sights—100 yards)**

1. L. A. Pope	300	VEEZ 73
2. Al Ljutic	299	VEEZ 73
3. V. Colburn	298	VEEZ 73

**WIMBLEDON MATCH (200 yards)**

(Scope)		
1. M. G. Ljutic	196	VEEZ 73
2. J. P. Graham	194	VEEZ 73
3. Shirley Turner	194	VEEZ 73

(Iron)		
1. Robert Munk	198	VEEZ 73
2. M. M. Clark	192	VEEZ 73
3. L. E. Johnson	190	VEEZ 73

**SWISS MATCH (200 yards—miss and out)**

1. L. G. Farnsworth	45	VEEZ 73
3. Shirley Turner	21	VEEZ 73

**TWO-MAN TEAM (50 and 100 yards)**

1. Al Ljutic		
M. G. Ljutic	400	VEEZ 73
2. L. G. Farnsworth		
V. Colburn	399	VEEZ 73

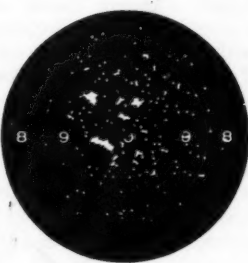
3. H. Wright		
L. A. Pope	399	VEEZ 73

**FOUR-MAN TEAM (50 and 100 yards)**

1. Richmond Elks Rifle Club	792	VEEZ 73
(Al Ljutic, M. G. Ljutic, Sam Johnson, C. W. Cole)		

**PALMA MATCH SHOOTERS TAKE 8 OUT OF 9 MINNESOTA SMALLBORE MATCHES**

The scores for the 1936 Small Bore Matches of the Minnesota Rifle & Revolver Association held at Fort Snelling, Minnesota, speak for themselves. They shout the fact that if you are in to win, shoot Palma Match! When such shooters as "Doc" Swanson, Vere Hamer, W. Eccles, O. Helseth and George W. Morse rely on Palma Match, you can bet your bottom dollar that Palma Match is "hot." See scores at right!

**THE TARGET OF THE MONTH**

226 HITS AT 200 YARDS on a 12" bull! This target was shot with iron sights by Charles H. Vincent of Utica, Mich., to win the Swiss Match at the Michigan Shoot. (Complete story below.)

Each month Remington will reproduce what is, in our opinion, an outstanding target fired in either a match or in practice. The only conditions are: 1. The target must be fired under N. R. A. conditions at any standard distance (50 ft., 75 ft., 50 yds., 50 meters, 100 yds., 200 yds.) 2. Be witnessed by two people. 3. Shall have been fired within one month previous to the time it was mailed to us. 4. Be fired with a Remington ammunition—Palma Match, Kleanbore or Kleankote.\* Send in your "hot" targets now to Frank Kahrs, Remington Arms Co., Inc., Bridgeport, Conn.

**ERIC JOHNSON TAKES MASSACHUSETTS CHAMPIONSHIP WITH VEEZ 73***Miss Ellima Kleinert captures Women's Championship*

Eric Johnson filled his cartridge block with VEEZ 73 at the Massachusetts State Small Bore Tournament, won the Any Sight Long Range Championship, the 50-Meter Re-Entry, the 100-yard Re-Entry Any Sight, and the Massachusetts Small Bore Championship (an aggregate). At the same time Miss Ellima Kleinert, of Waterbury, Conn., shot her VEEZ 73 to win the Women's Championship. Take a lesson from these two shooters and use VEEZ 73 at your next match!



Eric Johnson

**C. H. VINCENT SETS NEW SWISS MATCH MARK***Gets 226 hits on 12" bull at Michigan Small Bore Shoot*

Charles H. Vincent

Charles H. Vincent of Utica, Mich., went on the line at Saginaw, Mich., to compete in the Swiss Match at 6 P. M. At 8:10 P. M. in the failing light he managed to put one in the white . . . after sending his PALMA MATCH into the black for 226 hits with iron sights! This is a new mark for the 12" bull. (The mark of 196 set in 1934 with Palma Match still stands, as this record was made on the C-5 target which has a 7.2" bull.) Vincent's splendid target is reproduced above as "The Target of the Month."

**50-METER INDIVIDUAL**

1. E. O. Swanson	198	VEEZ 73
2. R. Johnson	197	PALMA MATCH

**200 YARD RE-ENTRY**

1. W. Eccles	195	PALMA MATCH
2. Vere Hamer	195	PALMA MATCH

**100 YARD INDIVIDUAL**

1. O. Helseth	200	PALMA MATCH
2. A. Rasmussen	200	PALMA MATCH

**200 YARD 2-MAN TEAM MATCH**

1. Geo. H. Morse	VEEZ 73
E. O. Swanson 196	PALMA MATCH

**50-METER 2-MAN TEAM MATCH**

1. Geo. H. Morse	VEEZ 73
E. O. Swanson 391	PALMA MATCH

**JUNIOR INDIVIDUAL CHAMPIONSHIP**

1. C. Knuteson	194	VEEZ 73
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**DEWAR INDIVIDUAL CHAMPIONSHIP**

1. Vere Hamer	397	VEEZ 73
2. A. Knuteson	396	VEEZ 73

**CLUB TEAM CHAMPIONSHIP**

No. 1	1570	PALMA MATCH
(Geo. H. Morse, E. O. Swanson, A. Knuteson, Walter Bratche)		

**POSSIBLES and IMPOSSIBLES**

by FRANK KAHRS



Spent a couple of days at the old Wakefield range with the Service Teams. Hobnobbed with Lt. Morine of the Coast Guards, Major Edson of the Marines, Major Heavey of the Cavalry and Major Andrews of the Engineers. They are all in training there for Camp Perry, and if they run true to form there will be some hot competition at the National Matches this year among the Service Teams.

Charlie Hamby is doing some great rest shooting and testing of .22 stuff down in Atlanta these days. Sent me some fine targets that were recently shot with VEEZ 73. We got quite a kick out of going through them and finding that Charlie averaged 1.05" inside measurement for 310 shots prone at 100 yards. Not bad, I'd say!

Have quite a batch of letters from some of the boys who want to know the lowdown on PALMA MATCH or special lots of ammunition for Camp Perry this year. The lowdown is VEEZ 73! It's shooting better than ever. For those who prefer the regular lubricated stuff, VEEZ 36 is doing fine this year. We will have enough of both to take care of any demand made on us.

Speaking of Maine, I hear that Fred Cash, President of the Oakland Rifle Club, was elected President of the Maine State Rifle and Pistol League. Congratulations, Fred!

H. A. Donaldson of Little Falls, N. Y., writes: "There was a time when the Schuetzen rifle was in a class of its own, as regards 100 and 200 yard accuracy. Today, with your modern .22 cal. long rifle ammunition and the fine match rifles available, this is no longer true . . . VEEZ 73 ammunition is making it tough to compete with."

"Wes" Hansche has something to say about VEEZ 73 hot weather performance. He writes, "Attended the Iowa State Shoot. . . . Official temperatures of 100 and certainly a lot higher than that on the firing point out in the sun. A gun barrel got so hot that one could not pick up his gun by the barrel. . . . Potter of Downing, Mo., won the 200 yd. match with VEEZ 73. I shot VEEZ 73 and won the Dewar."

C. M. Linder, Secretary of the Rockford, Ill., Rifle Club, sends in a set of four-position 50-ft. targets fired by Kenneth Van Alstyne in the Individual Championship Match of the Rock River Valley Rifle League with Palma Match. He scored 198x200. There's a man who can shoot standing on "his hind legs," too!

**NO CLUB COMPLETE WITHOUT ONE ---"THREE-SHOT IKE"**

HEY! WHO PUTS 3 SHOTS ON A TARGET AND QUITS? DONTCHA KNOW THESE TARGETS COST MONEY?



SOMEBODY PRACTICIN' SWISS MATCHES, HUH? DROP ONE AND OUT!

IF HE'D SHOOT PALMA MATCH MAYBE HE COULD COMPLETE A POSSIBLE!



included the volunteer Greys from New Orleans, moved south on the proposed invasion of Mexico, with Matamoras as the first objective. This imprudent move left San Antonio with a garrison of not more than seventy-five men, among whom were Crockett and his followers, under command of Col. W. B. Travis, though it was strongly suspected that a force of Mexicans would soon invade Texas. Houston foresaw that in case of this invasion San Antonio, because of its situation and importance, would be the first point of attack. He therefore detailed a small force under command of Colonel Bowie to march to this point, remove the cannon, blow up the Alamo, and retire,—further example of his policy of falling back.

The General Convention subsequently replaced Houston as commander-in-chief with James W. Fannin, an ambitious but irresolute young officer. Fannin joined in the mad project of invading Mexico, and got as far as Goliad, where he called a halt. Here his command was reinforced by two companies of volunteers from Georgia under Ward. Patriotic Sam Houston addressed the troops under Grant and Johnson at Refugio, vividly portraying to them the folly of invading Mexico. The majority of the troops were impressed by Houston's forceful speech, and consequently abandoned the expedition; the Greys remaining with Fannin's command at Goliad. Houston then disappeared from the scene of the war to await the sitting of the General Convention, which was to convene on March 1, 1836.

In the hectic days to follow, certain individuals; totally disregarding Houston's conservative policy, deprived Texas of many brave rifles. The valor and heroism of the patriot riflemen of Texas was unquestionable, but many of these men—the choice spirits of the land, the bulwark of the army—were rash, adventurous, and ready to hazard all. They had engaged and defeated overwhelming numbers of the enemy, and in consequence harbored a contempt for Mexican valor which rendered them overconfident and led to tragic reverses for the Texan cause in the early part of 1836. Houston well knew that Santa Anna would retaliate, but the blow was struck sooner than even he had expected. The news that three thousand Mexicans were advancing upon San Antonio, with large reinforcements following under command of Santa Anna himself, fell like a thunderbolt on the unprepared citizenry of east Texas. It was Colonel Travis' opinion that if the power of Santa Anna was to be met, it would be better to engage him on the frontier than to suffer a war of dissolution to rage in the settlements. He, of course, assumed that his meagre force of one hundred fifty rifle-

men would be speedily reinforced by Fannin's command, then at Goliad. Hence Sam Houston's conservative policy of falling back was again ignored.

On February 19th Colonel Bonham arrived in Goliad with a dispatch to Fannin from Travis requesting reinforcements. When the Mexicans arrived on the 23rd, Travis, having received no reinforcements, dispatched a second express to Fannin, which arrived the next day. On the 24th Travis wrote the following famous proclamation, which thrilled the world and serves to depict the spirit which animated that valiant officer and his men in their desperate predicament:

#### TO THE PEOPLE IN TEXAS AND ALL AMERICANS IN THE WORLD

Commandancy of the Alamo,  
Bejar, Feb. 24, 1836.

#### FELLOW CITIZENS AND COMPATRIOTS:

I am besieged by a thousand or more of the Mexicans, under Santa Anna. I have sustained a continual bombardment and cannonade, for twenty-four hours, and have not lost a man. The enemy have demanded a surrender at discretion, otherwise the garrison is to be put to the sword, if the fort is taken. I have answered the summons with a cannon shot, and our flag still waves proudly from the walls. *I shall never surrender or retreat*: then, I call on you in the name of liberty, of patriotism, and of everything dear to the American character, to come to our aid, with all dispatch. The enemy are receiving reinforcements daily, and will no doubt increase to three or four thousand, in four or five days. Though this call may be neglected, I am determined to sustain myself as long as possible, and die like a soldier, who never forgets what is due to his own honor and that of his country. *Victory or Death!*

W. BARRETT TRAVIS,  
*Lieut. Col. Command.*

P. S. The Lord is on our side. When the enemy appeared in sight, we had not three bushels of corn. We have since found, in deserted houses, eighty or ninety bushels, and got into the walls twenty or thirty head of beeves.

T.

Among the Texans within the walls of the Alamo were many riflemen whose names were famous on the frontier: Travis himself, a brilliant lawyer and soldier; Colonel Crockett, noted politician and bear hunter; the intrepid Colonel Jim Bowie, a filibuster who had figured in every Anglo-American attempt to estab-

lish a republic in Texas since 1819; and the gallant Colonel Bonham, who repeatedly passed the Mexican lines as Travis' courier. With the exception of a pitiful detail of thirty-two men from the neighboring town of Gonzales, who managed to get through the Mexican lines before day-break on March 1st, no help arrived and the Texans, whose number was thus swelled to one hundred eighty-two riflemen, stubbornly and repeatedly repulsed the attempts of the enemy to scale the walls of the Alamo.

The Mexicans maintained a continual bombardment from two howitzers,—one 8-inch and one 5½-inch, and a heavy cannonade from two long 9-pounders mounted on a battery on the opposite side of the river at a distance of about 400 yards from the walls of the Alamo. This was considered by the Mexicans to be well out of range of small arms, but the Mexican batteries were repeatedly disabled by the Texan rifles, who picked off the gunners, one by one. While the Mexican artillery was thus engaged, the infantry was busy encircling the Alamo with entrenched encampments: in Lavilleta, 300 yards south; at the powder house, 1000 yards east by south; on the ditch, 800 yards northeast; at the old mill, 800 yards north, and in Bexar, 400 yards west. The Texans, in the meantime, further fortified the walls of the Alamo by entrenching on the inside and throwing up dirt against the walls, which rendered them practically proof against the ordnance of the Mexicans.

At intervals would be heard the blare of the Mexican trumpets, and the infantry would form to storm the fortress under the withering fire of the unerring Texan rifles. At such times every available Texan was called into service to man the walls of the works, which properly required five times their number. As the artillery boomed and roared, the unwilling infantry advanced, mowed down in front by the ceaseless fire of the Texans which felled a man every time a trigger was touched, and prodded on from behind by the sabres of the Mexican cavalry. Courage and discipline were qualities conspicuous by their absence, yet the average Mexican infantryman bore a brutish indifference to death which could be turned to good account under such circumstances.

By the 3rd of March, Travis estimated that over two hundred rounds of solid shot had fallen inside the works without injuring a single man,—in fact up to that time the Texans had not lost a man from any cause, and had killed many of the enemy. We will for the time being leave this handful of valiant men in their desperate position, in sight of the blood-red banner that flew over the Mexican camp

in place of the constitutional tricolors; men to whom the threats of the Mexicans but served to increase their determination to sell their lives dearly and die in defense of Texan liberty and their own honor.

Travis' dispatches had affected Texas in various ways. The pusillanimous Fannin, aroused from his lethargy, it seems, had even started to succor the besieged, but for causes variously ascribed, had turned back. When Houston arrived at Washington to attend the meeting of the General Convention he heard the *novedades*, and is said to have grumbled something about "death traps and . . . admire their courage but damn their judgment." Old Sam stayed in Washington just long enough to aid in writing the Declaration of Independence and to be elected Commander-in-Chief of the army of the Republic of Texas. He left for the seat of the war shortly after publishing the following proclamation:

Convention Hall,  
Washington, March 2, 1836.

War is raging on the frontiers. Bejar is besieged by two thousand of the enemy, under the command of General Siesma. Reinforcements are on their march, to unite with the besieging army. By the last report, our force in Bejar was only one hundred and fifty men strong. The citizens of Texas must rally to the aid of our army, or it will perish. Let the citizens of the East march to the combat. The enemy must be driven from our soil, or desolation will accompany their march upon us. *Independence is declared*—it must be maintained. Immediate action, united with valor, alone can achieve the great work. The services of all are forthwith required in the field.

SAM. HOUSTON,  
Commander-in-Chief of the Army.

P. S. It is rumored that the enemy are on their march to Gonzales, and that they have entered the colonies. The fate of Bejar is unknown. The country must and shall be defended. The patriots of Texas are *appealed to in behalf of their bleeding country*.

S. H.

About one o'clock in the morning of March the 6th, 1836, an assault was made on the Alamo by the entire Mexican force under the personal direction of General Santa Anna. At the break of dawn, upon attempting for the third time, the Mexicans by reason of mere numbers alone managed to scale the walls and enter the fortress,—to find but seven bloody, sweaty, powder-stained Texans alive. The roar of the artillery subsided, Santa

Anna's trumpeters sounded the *dequelo* (no quarter to survivors), and with cries of "*Que meueren los Tejanos!*" (Death to the Texans!) the valiant Mexicans fell to their sanguinary task of butchering the remaining patriots.

The final desperate hand-to-hand conflict cost the Mexicans many lives. Among the surviving Texans was Mr. Benton and Colonel Bonham, whose blood was soon intermingled with that of their enemies. Travis, though mortally wounded, was able on the approach of the foe to sit up. A Mexican officer rushed forward to cut off his head with a sabre, but the brave Texan parried the blow and plunged his sword into the vitals of the Mexican,—both dying at the same moment. Evans was shot in the act of blowing up the magazine. Bowie, though stricken with fever and mortally wounded, used his rifle and knife with deadly effect to the end. Crockett, alone in an angle of the fort and surrounded by a cordon of dead and dying Mexicans, wielded his clubbed rifle until felled by a volley. A Mrs. Dickerson and her baby girl, and Colonel Travis' servant, were the only persons whose lives were spared by the Mexicans. General Cos ordered Travis' servant to point out the body of his master, upon whose head a price was set, whereupon the brave Mexican officer drew his sword and mangled the face and limbs of the dead Texan in a manner worthy of a savage.

Houston arrived in Gonzales to hear of the fall of the Alamo. He still contended that the Texans could not successfully engage the enemy at odds of ten to one, and with less than five hundred men he started on the historic retreat to east Texas, which was to end up at San Jacinto. In the meantime Urrea was wiping out small bands of Texans as he moved up the coast. Due to lack of organization, and insubordination on the part of Houston's field officers, many errors were committed and many valuable lives uselessly sacrificed. Johnson, with thirty Texans, was taken by Urrea's reconnoitering party, and butchered at San Patricio on the 27th of February. Grant fled to Aqua Dulce, where the balance of the ill-fated expedition was massacred by the Mexicans on the 7th of March. Captain King, with a small force, was taken by Urrea at Refugio, and met a similar fate on March 16th.

Houston vainly ordered the demoted Fannin to retreat, but that vacillating officer with illtimed bravery refused, insisting that Goliad would be defended to the very end. He later changed his mind, started to retreat, was intercepted by Urrea, and surrendered on the 23rd; with the result that his force of nearly four hundred Texans, among whom were the New Orleans Greys—were, with the ex-

ception of Dr. Shackelford and a few hospital aids, shot down in cold blood. On the 24th, Ward's battalion of Georgia volunteers, wandering about on the prairies, fell in with the Mexicans, surrendered, and were massacred on the 28th.

With the surrender of Fannin and Ward, the last of the early auxiliaries from the United States, and many of the more adventurous Texan blades, were eliminated from the contest by Santa Anna's policy of putting all prisoners to death. Santa Anna's appalling slaughter of the Texans had raised the fury of the backwoods riflemen to such a pitch that they demanded that Houston turn and fight. Volunteers from the country flocked in to join Houston's force camped on the east bank of the Rio Colorado,—for Texas was now thoroughly alarmed and had no idea of abandoning the rich plantations lying between the Colorado and the Brazos Rivers. For five days the army, numbering less than thirteen hundred, lay upon its arms while Houston exerted every effort to induce his men to retreat. However, the greater part of the army was composed of settlers with families, who were loath to leave their homes and crops.

On the 26th of March the old General was approached by his detachment commanders as he sunned himself on a pile of saddles. After patiently hearing their opinions, he arose and addressed his fellow Texans as follows:

"Boys, you want to fight—very praiseworthy indeed—your courage is certainly very praiseworthy;—but suppose the enemy brings artillery with him, can you, will you, take the responsibility of giving battle before our tardy fellow-citizens come up to reinforce us? How will you answer it to your consciences, if the republic falls back under the Mexican yoke, because an undisciplined mob would not wait the favorable moment for a fight? No, no, citizens—we must retire to the Brazos, where our rifles will give us the advantage; whilst here we should have to charge the enemy, who is five times our strength, in the open prairie. Don't doubt your courage, as you call it—though it's only foolhardiness—but I represent the republic, and am answerable to the whole people for what I do. Can't allow you to fight here. Once more I summon you to follow me to San Felipe, and all who wish well to Texas will be ready in an hour's time. Every moment we may expect to see the enemy on the other side of the river. Once more then—to the banks of the Brazos?"

Within an hour and a half the Texans had deserted their camp on the banks of the Colorado, and by the following evening had reached San Felipe. The next

(Continued on page 29)



*Chief of Police James E. Davis and the Los Angeles Pistol Team. Seated, Chief Davis. Standing, left to right: Lt. J. O. Dircks, Officer J. J. Engbrecht, Sgt. M. E. Wheeler, Motorcycle Officer L. J. Young, and Officer E. E. Jones*

## The California State Pistol Matches

By HENRY J. ADAMS, JR.

**O**N JUNE 27th, as the sun crept into the pine-fringed glade that shelters the Los Angeles Police Pistol Range, shooters with large grips full of guns could be seen wending their way toward the registration office. Seven of the first ten in the N. R. A. pistol and revolver aggregate at Camp Perry, as well as many fine local shots, were among the early-morning arrivals.

The shoot was sponsored by the California Rifle and Pistol Association, and the personnel for the conduction of the matches was supplied by Chief Davis of the Los Angeles Police. Captain McDonald and Lieutenant Holman of the aforementioned organization ably handled all situations which came up during the matches. The scoring was done on the line after the targets had been marked from the pits. The shooters were then allowed to make protests if there were discrepancies in their marked scores. The targets were marked after each five shots, and N. R. A. rules settled all arguments.

The first match of the two-day program was the National Course, fired with the .22 automatic or revolver. As the first relay left the 50-yard line there was very little comment about any high cards being turned in, so the majority began to breathe more easily, as it looked as if "Old Man Buck" had begun to take his toll. No one now was apt to go so high that they would be hard to catch in the aggregate. But

there was one person that wasn't worrying about the aggregate, but intended to shoot each match as it came along; and she promptly set her sights, and came out with a 94 at 50 yards. This was none other than California's famous lady shot, Marian Semmelmeier. On the 25-yard line she garnered a 98 at timed fire, and then roofed her house with a 98 at rapid, which set up a new world's record as it bettered the 288 which was made at Perry last year. Marian has long been the outstanding woman shot of the country, as she so ably proved over the last two years, particularly when she finished off by placing seventeenth in the National Individual Pistol Match at Perry with the fine score of 261. Her .45 Automatic scores often exceed that, but that score was made where it counted, and stood up against the best shots in the country.

In the Police Team Pistol Match, over the Police Course, the Los Angeles coppers won an unexciting victory, by defeating the L. A. Sheriff's Office 1408 to 1404. Engbrecht and Jones of the Police made good scores to clinch the victory when they chalked up 291 and 290, respectively. It is also worthy of note that Mrs. Semmelmeier came through with a 287, shooting factory full loads, while her team, the L. A. Revolver and Athletic Club, placed high in the civilian class. The San Diego Police finished third behind the Sheriffs, with 1394.

Probably the most important match from the practical viewpoint is the right-and-left-hand match, where the officer has a chance to prove what he could do if some crook should get him in the gun arm. The National Course is fired by alternating the hands after every five shots. This proves to be quite a feat in the rapid-fire stages. The mighty gun thrower, Lee Young, of the Los Angeles Police, stepped out in front here with a very good score of 274, which, I believe, is some kind of a record. He needed all he had, however, as Marian Semmelmeier was right behind him with 270.

The next match was the fall of another record, when Jake Engbrecht, the peer of all pistol marksmen, stepped to the line in the Police Individual over the 25-yard course, and made 98 slow, to continue with a 99 timed and a 99 rapid, for the excellent total of 296. E. E. Jones was second with 289, while the jovial, genial E. R. Simmermacher won high in the Civilian class by virtue of his 290. He was closely pressed by Marian Semmelmeier, who shot 288.

The last match to be fired that day,—the National Course with the .45 Automatic, was one in which I frankly expected to see the record broken, but only one man could come through and live up to expectations, and that individual was Jake Engbrecht. Jake won with 281,

*(Continued on page 28)*



## The Rim-Fire .22 on New Mexico Prairie Dogs

By GEORGE R. TURNER

**A**BOVE the window in the kitchen of my home hangs a piece of cardboard on which is written a string of dates and numbers. The first date is April 10th; the first number, 38. The last date is June 15th; the last number, 44. There are eighteen dates and corresponding numbers in all. The dates show on what days I went prairie-dog hunting, and the numbers show how many prairie dogs I killed on each day. Adding up the eighteen numbers gives a total of 536; and that is how many prairie dogs I have killed in eighteen days' hunting. I did not hunt for more than four hours on any one day, and on some days I hunted for only one hour. I probably did not kill half the prairie dogs I saw on any day—either missed or failed to get a shot, and it's a cinch that I didn't see all the dogs that were on any area over which I hunted. The above will serve to give the reader an

idea as to how many prairie dogs there are in this locality.

I live on a ranch, and with me, hunting prairie dogs consists in just walking leisurely along over most any part of the ranch, and taking the shots as they offer. Sometimes I sit down at some point from which I can get a good view for at least 100 yards in every direction, and wait for the dogs to come out of their holes. This latter method of hunting has the advantage that all shooting is done from the prone or sitting position, and a much greater percentage of hits is possible, for me at least, than when walking and taking about half the shots offhand.

For all prairie-dog shooting this spring I have used a .22-caliber Winchester Model 57 rifle fitted with a Weaver 4X telescope and a good sling. With the proper ammunition this is a very accurate rifle, and with the 4X scope makes a good

prairie-dog outfit, except that it is rather light and jerky for the offhand shots.

For prairie dogs I use only long rifle high-velocity hollow-point cartridges, as these are the only ones that will give decent kills. With these hollow-point bullets a hit anywhere, even in the belly, puts Mr. Prairie Dog down to stay; and on prairie dogs, so far as killing effect is concerned, these cartridges seem to be just as effective at 100 yards as they are at 30 yards. In years past I have shot thousands of prairie dogs with solid bullets in the .22, and when such bullets are used only about twenty per cent of the dogs that are hit can be retrieved, as they will nearly always get into their holes unless struck in the head. When he is sitting in the mouth of his burrow, even head shots—with any kind of gun—will not prevent a prairie dog from kicking and sliding down out of reach. However, with

the high-speed hollow-point .22 bullets, I have been able to retrieve about eighty per cent of those that I have hit this spring.

I have shot prairie dogs with all kinds of guns, and there is no doubt that a cartridge like the .22 Hornet would be better than the ordinary .22 rim-fire, as regards the ability to hit and kill, but when one makes a business of shooting prairie dogs, as I do, and fires five or six thousand shots in a summer, the cost is too high.

I keep my .22 sighted to hit center at 75 yards, and before starting on a prairie-dog hunt I always fire, from rest, five shots at target to check the sight setting. The gun is rarely off center as much as an inch at 75 yards, and, using Peters Filmkote high-velocity hollow-point ammunition, it will practically always put the five shots in a group one inch or less in diameter at this range. This Peters Filmkote No. 2284 is the only ammunition I have found that will do anywhere near this well in this rifle, and I doubt that any target ammunition would do better. Anyway, I have to shoot from rest to get that kind of accuracy, and it is plenty good enough to take prairie dogs up to 100 yards if I can just hold it on them. With the sights set for 75 yards it is of course necessary to hold over at 100 yards, but this is not so difficult with a scope having a rather fine cross-hair reticule. With fine cross hairs one can hold over any amount necessary and still split the prairie dog with the vertical hair, which helps a great deal.

I shot several thousand prairie dogs with this Model 57 rifle before mounting the telescope on it. With the scope I notice that I hit much more often at ranges beyond 50 yards, although I seem to do about as well with the iron sights at ranges under 50 yards. The greatest advantage of the scope, however, lies in the very much greater percentage of clean kills that I am able to make at all ranges, and especially the longer ones. With iron sights, at any range beyond 40 yards one must simply aim at the prairie dog, rather than at any particular part of him; while at ranges beyond 40 yards, especially when the grass is brown, one cannot be sure that he is aiming at the prairie dog at all. With the telescope the dog can be seen clearly at any range, and aim can be taken definitely at a part of his anatomy which, if hit, will result in a clean kill. After thirty years' experience shooting prairie dogs with the .22, I am very much of the opinion that any rim-fire .22 which is to be used for vermin shooting should be equipped with a telescope sight. Also I think that only the long rifle high-velocity hollow-point cartridges should be used.

Just the other day, while sitting in one spot, I shot five dogs at about 100 yards each. All of them were standing erect on their hind feet, and for each shot I held the cross about two inches above the head.

All five of these prairie dogs were hit in the head, neck, or shoulder, and killed instantly. Luck might have had something to do with this, but it wouldn't have happened had I been using iron sights.

As stated elsewhere, I have in years past shot thousands of prairie dogs with solid bullets in the .22. I can only offer as an excuse the fact that I have spent my life in ranching in this part of the country, which is so heavily infested with prairie dogs that I, in common with other ranchers and farmers in this vicinity, have destroyed the rodents by any means that could be devised. Aside from the humane angle, the solid bullets are not practical for this purpose, however, as these little animals will regularly recover from a wound which, I believe, would practically always prove fatal to any other creature of the same size. I have many times killed prairie dogs which, upon examination, showed the scars of a bullet that had driven completely through the body from side to side in rear of the heart area. In such cases the rear parts of the dogs'

#### REPAIRS AT SPRINGFIELD

The D. C. M. Office advises that from August 14th to September 8th Springfield Armory will do no repair work, though orders for repair work will be accepted, and repair parts not requiring special fitting will be sold.

bodies were usually much shrunken and withered, but the animals seemed as lively as ever, and able to go about their business much as usual. It is certain that such animals suffered a long period of agony, and though they recovered they were terribly maimed. I believe that the solid-bullet cartridges should be used only for target shooting, or at least only for head shots on small game, and never for vermin shooting.

In my shooting this spring I have made a point of checking the number of kills each day against the number of cartridges expended, and after eighteen days of shooting I find that my average is about 60 per cent. This may sound like poor shooting, and perhaps it is. A very good shot, and especially a very good offhand shot, would probably do much better. However, there are difficulties. Starting out on a day's shooting, I may be lucky and kill a dozen poodles within a single miss. Then I'll get into the sage-brush where shots cannot be taken from sitting, and have perhaps a dozen shots offhand at ranges all the way from 30 to 100 yards. Some of the dogs will be standing up and some will have just their heads showing at the mouths of their burrows. I try

them all, and perhaps this dozen shots nets me three kills. Again, I may be all set in the sitting position at the edge of a prairie-dog "town" waiting for some of them to come out of their holes, when a wise old dog will get up on a hump about 150 yards off, and begin yelling at the top of his voice that there is mischief afoot. No chance to do anything until he is hushed up, so I snuggle down into the sling and do the best I can. In such cases the dog is usually facing me, and this helps, as his belly is yellow and shows up well when he stands erect. This time, perhaps, I get everything just right, and an instant after I squeeze the trigger I see through the scope old Mr. Dog go over on his back with his legs kicking, while a satisfying "plop" from the bullet landing in his middle, drifts back to me. Usually, however, at such distances I do not get everything just right, and have to waste a shot or two on range-finding. A prairie dog under such circumstances will rarely duck until hit, and there is plenty of opportunity to waste ammunition and get some practice in estimating range and wind. Up here, at 8700 feet altitude, there is apt to be a breeze blowing, and even a very gentle breeze can cause one to waste a lot of those little 37-grain hollow-point bullets when trying to hit prairie dogs at 150 yards.

I never fully appreciated the effect of wind on these little bullets until I began using the telescope. Shooting with iron sights, with a gentle breeze blowing, it was usually impossible to see exactly where the bullet struck, and when I missed a dog at 100 yards I just laid it to error of aim or poor holding, or whatever else may be a part of poor shooting. With the telescope, however, I am much more sure of my holding, and moreover it is usually possible to see where the bullets strike. So I soon discovered that some of my missing at the longer ranges was due to a breeze—so gentle that I had entirely disregarded it—drifting my bullets enough to cause them to miss. Since these prairie dogs when 100 yards distant from the shooter will seldom duck until hit, I have had many opportunities to check on this wind business, and I have come to the conclusion that one cannot disregard a breeze, however faint, when shooting the little hollow-point bullets at ranges of 100 yards or more.

In spite of rather limited range, high trajectory, and over-sensitiveness to wind, the modern rim-fire .22 makes a very satisfactory outfit for exterminating such vermin as prairie dogs. And because of the very excellent .22 rifles and telescope sights now available for little money, and the low cost of .22 ammunition, more sport and shooting experience per dollar invested can be had with the .22 than with any other outfit that I know of.



*The gun and a 25-yard group shot with it*

## Some Surprises From an Old One

By F. L. WYMAN

**F**OR the past several years I have wanted a chance to really try for myself one of the old-time revolvers, such as the Colt Dragoon or the large Remington cap-and-ball. No matter how many modern pistols and revolvers a shooter may own, I think that the romance of these old guns is still felt, and that there are few of us but what would like to shoot them, at least enough to find out what kind of accuracy was possible in the old days.

Like many others, I seldom pass up a chance to visit the pawnshops, looking for both old and new firearms. Uncle Benny knows me as one of his best customers, and once in a while will even go so far as to put a gun aside for my inspection if it is one he thinks I may be really interested in. I have found that he well knows the prices he can get for late-model guns, but once in a blue moon he will slip up on some old gun the like of which he never saw before, and let a bargain get away.

Several months ago I found such a bargain when I priced an old Remington Model 1858 cap-and-ball revolver, which was in new condition inside and out.

These guns are fairly common, but I never happened to run across one before in such fine shape, and when a price of \$5 was mentioned I lost no time in closing the deal. I think that my lack of trading talk on this particular occasion has since cost me several dollars, for it seems to me that Uncle Benny's "asking price" has taken a sudden jump.

When I got home the first thing to do was to look in the Ideal Handbook and see what bullet and powder charge were recommended for the old gun. This was to be my first experience at loading a cap-and-ball revolver, although I have loaded thousands of modern cartridges. Back numbers of *THE AMERICAN RIFLEMAN* were also carefully searched for any information that might be helpful. Between these two sources I finally came to the conclusion that while my Remington was marked .44 caliber, it was really nearer .45 caliber.

Now the only bullet I had in .45 caliber was one I used in reloading for the Colt Automatic, and this weighed 230 grains, or just about 40 grains more than the regular bullet for the Remington. I pushed a lead slug through the barrel and

found that my automatic bullet was a perfect fit. I also measured the inside diameter of the cylinder chambers and found that the bullet would be a good, snug fit there, too, which was just right and would help prevent flash-over.

I therefore decided to try this bullet, even though it did weigh far too much. I had a can of King's Semi-Smokeless powder, and the next day ordered some No. 9 Remington caps. While waiting for the caps to arrive I cast several hundred soft lead bullets, and lubricated them well with the regular Ideal Sizer and Lubricator. When the caps finally arrived I tested one on each of the cylinder nipples to see if it worked all right, and then proceeded hotfoot to the range.

Now with my bullets weighing 40 grains too much, my first powder charge was mighty small; in fact, the first bullet almost reached the end of the 8-inch barrel—but not quite. However, I soon worked the charge up to 17 grains of King's Semi-Smokeless and a .22 L. R. case full of No. 80, which seemed about right. I had read of using this small amount of No. 80 in black-powder guns

*(Continued on page 32)*

# Testing a Brush-Cutter

By KENNETH FULLER LEE

**D**URING twenty years or so of guiding hunters in quest of deer and black bear, the writer has seen many shots wasted because just before they landed on the game a twig or small branch intervened, and the bullet blew up and spattered the target with small fragments of lead and parts of the jacket. This sort of thing results in superficial wounds, and in nine cases out of ten the game is not injured badly enough to allow of a second, finishing shot. Now game is never plentiful enough, anywhere, to warrant accidents of this sort, but many times the shot thus wasted is the only real chance afforded on a long and expensive hunting trip.

A week in the Back Country, necessitating the purchase of a hunting license and the hiring of a registered guide, will cost, on the average, at least one hundred dollars, which is real money these days. And if the hunter has to come from a distant point, his travel expenses will double the above amount. Naturally he wants his trophy, but how can misses of the sort described be avoided? Given a reasonably good chance at a standing target, how can the hunter insure his one shot against the ever-present possibility of a missed or slightly-wounded game creature? Mr. Edwin Pugsley, genial Vice-President of the Winchester Repeating Arms Company, and a keen student of the hunting game, recently sent me the answer. It came in a long pine box. He also included plenty of ammunition.

The rifle itself is a Model 71 lever-action for the new .348 cartridge, and there are two standard loads: one using a 150-grain bullet at Springfield velocities, and the other a blunt-nosed 200-grain bullet for the heaviest American game. This .348, by the way, is the outcome of a persistent and long-continued demand from a large group of sportsmen for modern ballistics in a lever-action arm.

The action is that of the old '86 Winchester, with a few rather striking improvements. The rifle comes with the finest set of practical hunting sights ever put on a strictly run-of-the-mill hunting arm: a nice peep sight mounted back on the rear end of the breech bolt, and a hooded ramp enclosing a good-sized gold bead which shows up well in poor light. Add to this a beavertail fore-end large enough to fit the biggest hand, a nice fist-filling pistol grip, and a well-shaped buttplate, and you have quite a lot of rifle. It is balanced just right for fast snap-shooting, and I found that I could hit potatoes in the air with it as well as with my pet

.22's. The barrel is short and heavy, and the rifle comes equipped with an oiled sling-strap, not too wide, and the best set of detachable swivels I have ever happened to run across.

The .348 has been thoroughly tested at black-and-white targets, and readers of any of the good outdoor magazines have long since digested the results. The rifle and its loads will shoot much closer than any of us can hold offhand, at either standing or moving game. I am not particularly interested in match accuracy in a hunting rifle. Most of the shots afforded in my type of hunting are well within 100 yards range, the majority of them being inside of 75 yards, and in dense cover. So we decided to give this rifle a workout in a series of tests which would show what it was capable of doing under hunting conditions in thick brush. For bear are found in cedar swamps, where they can stuff their rotund tummies with succulent roots of many varieties, while deer are commonly found in cutover country which has come up to second-growth and raspberry bushes. Both animals get under way in a real hurry at the first suspicious sound, and after that you've got to do some extra-fancy wing-shooting if you hope to connect with them. Twigs, branches, and small tree-trunks *will* intervene, and the chances of stopping a bouncing black bear or racing buck by spattering him with small fragments of lead are slight indeed.

We worked out our tests in methodical fashion. First we constructed a life-sized Celotex deer, horns and all. This was set up in the heart of an alder run, where there was no scarcity of twigs and branches. Firing points were then established in an open field a measured 75 yards away. The shoulder of the deer was the aiming-point, a lumberman's crayon being used to mark the holes made by each string of shots. In order to get a cross section of the bullet effect produced by various types of hunting firearms, we tried out my pet .250 Savage, a .30 Remington slide-action, a .303 Savage lever-action, and the new .348 Winchester, each series of five shots being given a serial number to identify it.

Because it has been my favorite for the past five years, the .250 Savage using the 87-grain bullet was tried first. It did just what I expected it to do: five shots gave two clean "kills" in the shoulder area, the other three blowing up and landing all over the deer, bird-shot fashion. Our next string was fired with the same rifle using 100-grain open-point Western loads. These did better, scoring three "kills" and two

"bad wounds" in which the bullets apparently swerved after passing through small obstacles.

Naturally these tests depended somewhat upon the "fortunes of war," as we obviously could not devise any way of getting a uniform number of obstacles in front of each bullet. But we changed firing points frequently, and managed to get a pretty fair general idea as to how the various bullets performed in dense brush.

The .30 Remington proved more effective than the .250 had, which was to be expected, as we did not use the fastest loads available for it. On light twigs and branches its bullets showed no tendency to blow up, but nevertheless three "kills" were the best we could obtain with it.

As was expected, the .303 Savage showed up very well, its relatively slow, heavy bullet walking through the brush in fine style. We got four "kills" with it, and the fifth bullet landed just outside of the 7-inch shoulder area. That old .303 always was a reliable hunting load.

Private Walter Weightman, late of the 78th Pursuit Squadron, and an excellent shot, acted as my shooting partner in these tests; and after we had inspected the results of the first five shots with the 200-grain bullets from the .348, he asked me what I would give him for a brand new .250. All five of the .348's had swamped a straight trail right through that alder run, landing in the killing circle without apparently having lost a single grain of weight in transit. One of them passed through a two-inch alder stem, cutting it off and not swerving a hair's breadth to the right or left. And right here the gun got its name, at least for us. Walter took a glance at the target, and then: "She's a brush-cutter: you can see the trees dodge when you touch her off!" he said. So we re-shot that string, and the results were practically the same, except for one shot which went astray due to poor holding.

The recoil of the .348 with the heavy loads would not be noticeable under actual hunting conditions, but without a recoil pad a long string of shots fired at inanimate targets would be apt to shake one up a bit unless he were doing it every day. But you can paste this in your hat: if you hunt with a .348 this fall, and get a fair standing shot at anything at close or medium range, you are going to connect with it, brush or no brush. What is more, any animal that stops one of those .348 slugs is never going to be really healthy again.

(Continued on next page)

# Rebarreling in the Back Woods

By HOWARD L. HAINES

IT WAS a composite of two different guns in one. The barrel, magazine, and forward half of the receiver were from an 1890 Winchester rifle chambered for the .22 short cartridge, while the stock and back portion of the receiver and action were from a 1906 Winchester, with its carrier for the short, long, and long rifle cartridges. The rifle was absolutely worthless to me, as the barrel was completely rusted out. The action was all right, but a new barrel would cost at least seven or eight dollars, and I did not have the money. So the rifle was set aside and nothing further done to it, until I acquired a wreck of an old Belgian .22 bolt-action single-shot rifle that must have been at least twelve or fourteen years old, and was itself unserviceable because the chamber was rusted and the fired shell always stuck. Also, the previous owner had dug the shells out with a pocket knife, and the metal around the extractor-cut had been chewed away so that the shell would blow out sideways. The inside of the barrel was in fair shape, the rifling, though badly pitted, showing fairly plainly and leading me to hope that the barrel might perhaps be reasonably accurate.

The problem was how to put this barrel on the Winchester action, for I had no means of cutting threads on the breech end. The barrel could have been filed down and pinned in place in the receiver, but I did not wish to mar the looks of the rifle that way. So I cut the barrel off about an inch from the breech, and filed a shallow groove around it about one inch from this end, deepening this groove with a hack saw. It was intended to have the receiver ring butt up against the shoulder that was formed here when the rest of the metal was cut away back to the breech end. I cut most of this metal away with a small cold chisel, after which this portion was carefully filed down to nearly the right size. A hole was then drilled in a large file that had previously been annealed in the fire, the hole being a trifle smaller than the outside diameter of an old Ideal .28-30 shell-neck resizer; which latter, being made of hardened steel, was used to cut threads in the hole in the file. Clearance spaces had been filed in the metal around the hole, as in a regular threading die. This extemporized die was hardened by heating and plunging into cold water. It was a trifle larger than the outside diameter of the old .22 short Winchester barrel, and was used to cut a very shallow thread on the breech end of the Belgian .22 barrel. This thread was deepened by the careful use of various three-

cornered files; and then, with the barrel wrapped in paper and held tight in a vise, the receiver was turned on by hand. The receiver must have been given some hardening in the course of manufacture, for its threads actually cut deeper into the threads of the barrel. After a little easing up of the tight spots here and there with a file, the receiver was finally turned all the way on the barrel. The square shoulder on the barrel did not fit perfectly against the receiver ring by any means, but the barrel was held tight, and that was enough.

The barrel at the breech was almost the proper length to permit closing the action, so it was next chambered. A chambering tool was made by turning down a piece of an old broken Marlin firing-pin to the size of a .22 long rifle cartridge. This was made slightly tapering, so that at the forward end it was perhaps .002" smaller in diameter than immediately in front of the rim. The piece of steel had previously been hardened, and the temper only very slightly drawn, so that it was very hard to file. A pilot was left on the forward end, and four longitudinal grooves were cut to form the cutting edges. Then the tool was inserted in the barrel, and revolved slowly by means of a Yankee brace, being withdrawn several times to clean out the chips and add a little fresh oil. The cutting was continued until the chamber would take a .22 l. r. cartridge. It was found necessary to very slightly burr the cutting edges of the reamer at the forward end, for the chamber as first cut was too small at that end to take a cartridge easily. An extractor-cut was then filed in the breech end of the barrel, the old barrel being used as a guide. The original extractor hook was used, and was filed a trifle to make it grip the shell better. The breech end of the barrel was then carefully filed until the breech bolt would just close on a cartridge, cartridges of three different makes being used for test.

The dovetail slots for the magazine rings were next cut, and the magazine fitted very close to the barrel. Then two more slots were cut in the upper side of the barrel for the front and rear sights. The front sight consisted of one of the cheap Winchester sights having a nickel silver insert in a steel base. The insert was slotted lengthwise, and a piece of saw blade fitted, and pinned and sweated in place. The rear sight was an old 1,000-yard Winchester carbine sight, with the back portion of an old Winchester buck horn sporting rear sight soldered to it. A few shots fired offhand at 20 feet

grouped very closely, and three shots fired offhand at a piece of paper about 1½ inches in diameter at 25 yards struck the center of the paper and made a neat little triangular-shaped group. A few more shots offhand convinced me that the gun would shoot.

Perhaps close to one hundred whistlers have been killed with this rifle at distances varying all the way from 5 feet up to 60 yards, and perhaps a dozen woodchucks at similar distances. One whistler at 52 long steps was missed the first and second shots, and hit the third shot as he stopped to take a look around at the edge of his hole; and a large hawk was knocked out of the air at about 90 yards with the eighth shot. A pure accident, for I have never before or since hit anything in the air with a rifle.

The 1906 stock did not suit me, so it was lengthened with leather, and an old Savage 1903 buttplate put on. The trigger-pull is at least 6 pounds, and the sights glitter terribly, for the solder got smeared around while I was sweating the broken buck horn to the carbine sight. The main-spring broke, too, but I fitted an 1894 Winchester spring.

The gun, being made up from two different actions, did not work smoothly at first, due I think to the extractor bearing too heavily upon the carrier; but when I filed the extractor slightly to relieve the pressure, the action worked as smoothly as anyone could wish.

This rifle is only a makeshift at best, and is nothing for looks; but it surely can shoot! It is chambered so close that a shell fired in a Winchester rifle will stick if placed in the chamber of this one. I sometimes wonder if this close chambering may not be the reason for its shooting so well.

## TESTING A BRUSH-CUTTER

(Continued from page 26)

It will perhaps be argued that one can load a Springfield to the same ballistics, and get the same results; which of course is true. But the vast majority of hunters do not hand-load. It is also argued that an expert can operate a bolt-action arm nearly as fast as a lever-action, which again is true. But the average hunter—thousands upon thousands of them—never reach the "expert" stage, and for this type the .348 solves many problems.

The writer has been a bolt-action fan for years, having owned a flock of Mannlichers, Mausers, Springfields, Enfields, Kraggs, and Remington and Savage rifles of the bolt-action persuasion. They were all fine guns, and capable of killing plenty of game, as most of them did. But from now on, until something happens to show me otherwise, my first choice for brush hunting in Maine will be the new .348.

# Four Important Fall Shoots Remain on Outdoor Calendar

UNTIL this year, for no plausible reason the outdoor season has usually terminated in mid-September. Many shooters, considering the National Matches as the culminating events of the outdoor season, have grown accustomed to putting away their shooting irons about this time of the year. Few, if any, shoots have remained on the outdoor calendar after September 15th.

But this year the picture has changed. The registered tournament plan has met such enthusiastic endorsement that the formerly curtailed outdoor season now is appropriately extended to include the months of September, October and even November. This is as it should be for perhaps the most delightful weather of the entire year prevails in the fall.

First of these important fall outdoor shoots is the southwestern pistol and small bore rifle tournament, to be conducted by the Trinity Rifle Club of Dallas, Texas, which will get under way in that city on September 26, continuing through the 27th. Under the leadership of J. M. Harris the Trinity Club has planned a splendid 3-day schedule that should attract scores of shooters throughout the southwest. It is a registered tournament which means that the matches will be conducted under direct supervision of the N.R.A. with double targets being used at all short ranges. Located within the city limits of Dallas, and coming at the peak of the great Texas Centennial celebration, the Trinity Club tournament provides an unusual opportunity for visiting marksmen to participate in their favorite sport as well as to visit and see the interesting sights of the famed Texas Centennial. A tourist camp is situated near the rifle range and accommodations (either in the camp, in tourist homes or hotels) will be made by Mr. Harris upon request. For programs and additional information write Mr. J. M. Harris, 919 North Mt. Clair Street, Dallas, Texas.

Three days following the Dallas Shoot, or on October 1st, comes the Delaware State and Tidewaters Championship Meet, a small bore and pistol tournament scheduled over the four day period October 1 to 4 inclusive. Sponsored jointly by the Marksman's Club and the Wilmington R. & P. Club, this meet includes a generous schedule of small bore and handgun matches which will be fired over the Marksman's Farnhurst Range near Wilmington, Delaware. This also is a registered tournament and scores in the small bore events will be considered in selecting the 1937 U. S. Bisley Team. Programs now ready may be obtained by

writing to Frank R. Lesney, 106 East 16th St., Wilmington, Del.

Third of this series of tournaments is the Middle Atlantic Smallbore Meet conducted by the National Capital Rifle Club of Washington, D. C. This is the shoot formerly held in the early spring, but this year postponed until October because the fall weather in Washington generally is much more favorable than in the springtime. Definite information, particularly as regards dates is not available as we go to press, although the dates of October 9 to 11 inclusive have tentatively been set. Always a popular shoot, the National Capital Tournament this fall should surpass any previously conducted Capital City meets, not only in attendance but in improved facilities as well. The matches will be fired over the new range at Camp Simms in Congress Heights, and the program, according to genial Secretary Tom Arnold, will be fashioned after the very successfully conducted Indiana, Pennsylvania, Tournament. Conducted in the N. R. A.'s own "back yard," the meet of course will be registered and managed by N. R. A. Staff men. Programs should be available about the time this issue is out and copies may be obtained from T. G. Arnold, 7 McCrary St., Hyattsville, Md.

Last of the registered tournaments of the 1936 outdoor season will be the Southeastern Tournament sponsored by the Savannah Rifle Association and to be conducted over that club's new spacious and park-like range on Tybee Drive near Savannah, Ga. Unfortunately, no specific information on the Savannah Shoot is available at this writing, but having seen the range under construction a few months ago, this writer is confident that the excellent layout is nearing completion and everything will be in readiness for the shoot which will take place in November. Shooters interested should write to Charles S. Rockwell, Secretary, 1233 39th Street, Savannah, Ga.

## LEAGUE SCORES BEING TABULATED

Individual scores of all club members who shot in the N. R. A. Outdoor Interclub League Matches are now being compiled in bulletin form and will be ready for distribution about September 15. Stage scores of each competitor in each match fired will be recorded. Copies of the bulletin will be mailed to Secretaries of the 250 club teams who participated in the Outdoor League Program.

## CALIFORNIA PISTOL MATCHES

(Continued from page 22)

while closely bunched some distance behind were M. E. Wheeler, 274, W. R. Stark, 273, E. E. Jones, with the same score, and C. E. Ward in fifth place with 271. Jake's score breaks Charley Askins' record by five points. A. K. Wilson won the civilian class with 268, and E. R. Simmermacher came next with 265.

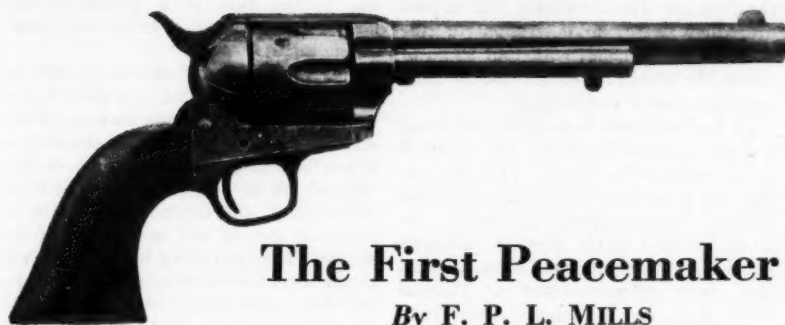
Sunday morning brought another day, but it proved to be a repetition of the first as far as records were concerned. The National Course shot with the .38 opened the day's firing, and although no records were broken in this event the scores were of National Match caliber, as twenty men bested 270. The winner was the familiar Engbrecht, who had 287, while Emmet Jones followed on the next relay with 285. C. E. Ward, 281, Lee Young, 279, and W. R. Stark, 277, were next, in the order named. William Carroll won the civilian class with 277, which is a good score in any league.

The Los Angeles Police came close to another record in the .45 Automatic Team Match when they chalked up 1321 for a five-man team. The Los Angeles Sheriff's force was in second place with 1300, while the L. A. Police Team No. 2 followed with 1297. These three teams will be serious threats to the contenders for the National Team Championship at Camp Perry this fall. The L. A. Revolver and Athletic Club won the civilian class with 1284, which is thirty points higher than the winning score in the same match at Perry last year; but of course wind conditions were much more severe at the Nationals.

The twenty-shot slow-fire match was the last individual match on the program, and the dopsters had already figured Engbrecht nine points in the lead for the aggregate. Mark Wheeler came through here for his first win, shooting his 4-inch-barrel .22 automatic, and scored 185. Ward was second with 184, and J. A. Bartley third with 183. Jake never wavered from the black, but finished with 178, which gave him the Grand Aggregate, or the State Championship, with the high total of 1320. Emmet Jones of the same organization was close behind with 1314, while Wheeler, Ward, Stark, Starkey, Dircks, Adams, Oliver, and Shivel finished out the first ten places and were awarded brassards, symbolic of the mythical State pistol team.

During the above match the fairer sex were fighting it out for the Ladies' Championship, which is decided by shooting twenty shots on the Standard American target at 25 yards. Mrs. Marian Semmel-meyer won, as many expected, by shooting 196, but Mrs. Basil Starkey, wife of a Los Angeles policeman and Camp Perry

(Continued on next page)



## The First Peacemaker

By F. P. L. MILLS

TO THE regular gun enthusiast the thrill of getting a new gun, or a new barrel for the woodchuck outfit, is the same as that of finding something rare or unique is to the collector of old guns. How many of us have pictured in our mind's eye the thrill of finding in some secluded attic a Walker of Texas Colt, a Ferguson breech-loading flintlock, a Collier revolving flintlock rifle, or a Model 1880 Harpers Ferry rifle? We have all had it, and such visions help to keep up the interest and joy in collecting; and one can well imagine the whoop of joy I gave when, examining a Colt Single Action Army revolver that I had just picked up, I found the figure "1" in three different places: on the bottom of the butt strap, on the front of the trigger-guard plate, and on the frame in front of the trigger guard; indicating that this was the very first gun of this type to be manufactured! The revolver is shown in the accompanying illustration, and is .45-caliber, with a 7½-inch barrel, and in excellent condition but showing some holster wear.

To have the first one of the famous

Colt Peacemakers sets one out from the crowd, the same as a silk hat does. Only once before in thirty years of collecting old firearms did I have such a thrill. Then, after following up innumerable clues to old Colts only to find them to be .44-caliber cap-and-ball Civil War revolvers, I found in an old barn, a Colt Dragoon, marked on the barrel "New Hampshire." It was in fine condition, and is the best one I have. It always pays to follow up these clues no matter how many disappointments one may have had, for sometimes the "big Colt" described to you may prove to be the coveted Walker.

Of the many, many different things that are collected by enthusiasts, old firearms bring the greatest thrills of all; and the gun collector will sell his shirt or go without a new suit in order to get some old gun that he has coveted, all protests from and arguments by the feminine member of the household notwithstanding. Horace Kephart's remark in "Camping and Wood Craft," about the fellow "caught sneaking in his back gate with a new gun he doesn't need," is just as applicable to the collector of old guns.

### CALIFORNIA PISTOL MATCHES

(Continued from page 28)

shooter, was close behind with 193. Another Camp Perry shooter and Policeman's wife, Mrs. Guerdat, had 192, Mrs. Sichler, 191, and Mrs. R. S. Pease of San Diego, 190.

The hard-working Statistical Office under the management of L. A. Pope had now figured out the State champions in the aggregates of the different stages. E. E. Jones won the slow fire and the timed fire, with Engbrecht second; but Engbrecht showed that he had what it takes, and came in first in the rapid, which probably accounts for his winning so many matches. His closest rival was E. R. Simmermacher.

The last match of the meeting happened to be the National Course Team Match with .38's, and was, to my mind, the most stellar performance that I have ever witnessed. The Los Angeles Police had an average of over 279, which remarkable

score was made possible to some extent by the greatest score ever fired by any individual. Jake Engbrecht left the 50-yard line with 94,—a good start, but we have all made that at one time or another. He finished timed fire with a 99, and others have made that too, perhaps. But 99 for rapid,—we were all stopped, for that has never been even approached before! Everyone was glad to see Jake do this, for he is one of the fairest sports in the game. He is by all odds the most consistent shot in the country today, and bids fair to remain so for some time to come. At any rate, the Los Angeles Police finished the Team Match with 1396, beating the L. A. Sheriff's by thirty-six points and setting up an all-time world's record.

These matches will be held at approximately the same time next year, and there will probably be a good-sized pot of added money. So if you like good, clean competition, plan to come out here next year and try to get some of our "dinero."

### THE PATRIOT RIFLES OF TEXAS

(Continued from page 21)

morning the army—or what was left of it, for it now dwindled nearly as fast as it had increased on the Colorado—resumed the march, to arrive on the Brazos bottoms on the 31st of March with less than nine hundred men. At this point Houston was faced with the prospect of open mutiny among the troops, and his manoeuvres were criticised by the provisional President of the Republic. The old veteran met the former exigency by having two graves dug, ostensibly for the purpose of planting the first who should make trouble, whom he proclaimed would be shot.

Houston had hoped that by his retreating the Mexicans would divide their forces, whereupon he would fall upon the separate units at the strategic moment. He now felt that the moment had arrived, for Santa Anna, with a detachment of troops, had separated from the main army and was marching in the direction of Lynch's Ferry on the San Jacinto River. Houston had in the meantime received his long-desired artillery,—two iron 6-pounders; and by making forced marches by night and day he intercepted Santa Anna's force on a piece of ground at the confluence of Buffalo Bayou and the San Jacinto River about half a mile from the ferry, on the 20th of April. In the engagement which followed, the enemy advanced a double-fortified medium brass 12-pounder between parallel lines of infantry and lancers, but before the Mexican gun could be gotten into operation, its carriage and crew were partially disabled by a discharge from one of the Texan 6-pounders. The Texan riflemen engaged the Mexican skirmishers occupying a piece of timber within rifle shot of the left wing of the Texan army, until the Mexicans withdrew to a position on the bank of the San Jacinto about three-quarters of a mile distant, to await reinforcements. Aside from a sharp rencounter between a detachment of Mexican lancers and eighty-five mounted Texans a short time before sunset, nothing of importance occurred during the remainder of the day.

On the morning of the 21st the Mexicans were reinforced by five hundred picked regulars under command of General Cos. This increased the Mexican force to upwards of fifteen hundred men, while Santa Anna furthermore expected to be reinforced any moment by Filisola with two thousand men. The right flank of the Mexican infantry occupied the extreme point of a skirt of timber on the bank of the San Jacinto, while their left was secured by a fortification about five feet high, constructed of pack saddles and baggage. The artillery was placed in an opening in the center of this breastwork,

while the cavalry was stationed on their left wing.

On the afternoon of the 21st, the majority of the Mexicans were enjoying a siesta, never thinking for a moment that the Texans, numbering less than eight hundred men, would dare attack their formidable force,—the crack regiments of Santa Anna's Army of Operations. But at 4 P. M. the Texans fell upon the slumbering Mexican encampment, Houston having in the meantime instructed the famous frontier scout, Deaf Smith, to destroy Vince's bridge on the only road to the Brazos by which both armies had arrived, thus cutting off all possible escape to the vanquished.

Houston first dispatched the Texan cavalry,—sixty-one men under command of Colonel Lamar, to the front of the enemy's left wing. In the meantime the Texan line formed in an extensive island of timber, and advanced in double quick time. The artillery under command of Col. George Herkley, sustained by four companies of infantry under Lieutenant Colonel Millard, advanced to a position within 200 yards of the enemy's breastwork, and opened a destructive fire; with grape and cannister, Houston states in his official report, but it has been intimated that it was nothing more than chopped up horseshoes.

The 2nd Texan Volunteers under command of Colonel Sherman, forming the left wing, commenced the action as the entire Texan line rapidly advanced over an open prairie with no protection whatever. The Texans, with the ringing war cry of "Remember the Alamo," received the feeble discharge of Mexican musketry with firmly clutched rifles, holding their own fire until they had advanced to within 60 yards of the enemy's lines; nor did they halt until they had swept over the breastwork and into the timber. The right wing of the 1st Texan Volunteers, under command of Colonel Burleson, and Millard's left wing, took possession of the breastworks. The cavalry had in the meantime charged and routed that of the Mexicans, pursuing the fugitives to Vince's bridge, 8 miles distant.

The conflict in the enemy's lines lasted but a few moments. The Texan riflemen engaged the Mexicans hand to hand, and not having time to reload, or the advantage of bayonets, they used their butcher knives as well as clubbed rifles, breaking many of the latter off at the breech. The Mexicans soon broke and fled, and the Texans followed,—shooting, knifing, and clubbing the fleeing half-bloods as they scattered over the prairie and into the woods. Many made no resistance after the first onslaught, but with cries of "Me no Alamo," fell upon their knees with sullen and cowardly resignation, awaiting the fatal blow. In eighteen minutes from

the time the Texan riflemen first opened fire, they were in possession of the enemy's encampment, with four stand of colors, the brass 12-pounder, and all camp equipage, stores, and baggage.

In the battle the Texans lost *two* killed and twenty-three wounded, six of which latter subsequently died. The Mexican loss was six hundred thirty killed and two hundred eighty wounded. Among the seven hundred thirty Mexican prisoners taken were: General Santa Anna, General Cos, four colonels—aides to General Santa Anna, and the colonel of the Guerrero Battalion. Six hundred stand of muskets, three hundred sabres and two hundred pistols, several hundred horses and mules, and close to \$12,000 in specie—with the above-mentioned artillery, stores, baggage, etc., fell to the victors.

Thus did a handful of the patriot rifles of Texas,—loosely organized and unskilled in military tactics, prove more than a match for the pick of the forces of the *Napoleon of the West*, as the pompous Gen. Antonio Lopez de Santa Anna chose to style himself. Hence the power of a tyrannical and semi-barbarous government was forever destroyed in Texas, and the most verdant branch rent from the stem of the Mexican cactus.

#### REST SHOOTING

(Continued from page 15)

cient space for an exact record of each group. The targets are then filed in a looseleaf holder, which keeps them in good condition.

Any good telescope of from six to twelve power, with medium to fine cross-hairs, may be used in rest shooting. When a high-power scope is used it is well to practice regular oxygenation of the blood just before settling down for the trigger release. My method is to fill the lungs fully, then to expel all the air, again fill the lungs, expel about half, and hold steady in the final act of trigger release. This provides the system with the necessary air while the breath is being held, and it raises the ribs slightly over the heart and reduces body vibration. This method was used for years by offhand shooters in Schuetzen work, and is still practiced by Mr. C. W. Rowland and the writer, in rest shooting.

The size of the white sighting disc or center in the target should be chosen according to the range and the power of the scope, as well as the thickness of the cross-hairs. When a low-power scope with coarse cross-hairs is used, the white sighting disc should be large. The rifle should be so sighted that the bullets do NOT group on this white center, for just a few shots will destroy the aiming point. This recalls an occasion when a certain friend was watching me shoot some rest groups. He seemed to think it strange that, while I

was putting them all in practically one hole, I could not seem to hit the center of the target!

If several different sizes of centers are tried, one will be found that gives better results with less eye strain than any other. Another method, for 100-yard shooting, is to use four black pasters set on about 2½-inch centers, to form a square. A little experimenting will determine the size of paster to use, as well as the size of the square. It is surprising how the eye will center these four black spots at 200 yards; and very small groups can be made with this form of aiming point. But no matter what form of target is selected, the important thing is to see it the same for each shot. Rest shooting with a heavy rifle offers an endless field for experiment, and different targets may be used until one is found that seems to give the best results with your own particular iron sights or telescope.

The secret of successful rest shooting lies in being able to discover the errors in your rifle, in the ammunition, and in yourself when doing the actual shooting. Only when these errors are discovered, and are eliminated as far as is possible, can there be any improvement in the size of the groups. The requisites of a successful rest shooter are endless patience and an eye to small details.

It is hardly possible to give dimensions for a shooting table or bench rest that will be suitable for all shooters. A rest that may be just right for one person may be too high or too low for another. The bench should be the right height to allow of the forearms lying flat on the bench top when the shooter is seated in an ordinary chair, with his feet flat on the ground. The legs of the table may be made from 4 x 4 fir or oak, but 6 x 6 material will make a heavier bench. The rails may be 2 x 6 fir, mortised into the legs or bolted on the outside. The top of the bench should be made from 2-inch planks glued together with waterproof glue, and fastened with screws to the rails. One corner of the top should be sawed out to allow the shooter's body to be at an angle of about 45 degrees to the line of fire. If this opening is made so that the chest touches the edge of the bench top while the forearms rest easily on the top, it will allow of steady holding.

Almost any sort of wooden V-block may be fastened to the front of the bench. My rest has a piece of half-inch sponge rubber glued into the notch in the block. The height of the V-block from the table top is more or less governed by the drop of the stock of the rifle being used. In my shooting I want the rifle as low as possible on the rest, and having the V-block adjustable for height allows of its being used with any type of stock. My article in the May issue of *THE RIFLEMAN* shows a well-made bench rest with adjustable V-block. It is also adjustable for differences in bar-

rel length as well as for height. The lower part of the legs of this bench are covered with sheet lead. This adds to the weight, and also protects the wood from the weather.

The bench rest should be well painted unless it can be protected by a shooting house. Some riflemen use a canvas cover over the shooting table, and this should be fastened securely in place or it may blow away.

I have one bench rest in my workshop which allows of shooting in any weather, and is made ready for use by simply raising a window sash. This is a most convenient arrangement, and when used with a spotting scope it saves a great deal of walking back and forth.

No one should expect to do as good shooting from a strange bench rest as from one he is accustomed to. Constant practice will allow of fair shooting from most any sort of bench rest, but when the shooter tries to adjust his position to a rest with which he is not familiar, quite often a strain is imposed at some point that causes the group to open up. That is the reason why a visiting rifleman will seldom be able to make as small a group from any rest as the man who made the rest, and is accustomed to it. So do not try to beat a rest shooter on his home range: it simply is not done. Doctor Mann mentioned this in his book when he told of his experiences in testing one of his best rifles while on a visit to his old friend Dr. S. A. Skinner, at Hoosick Falls, New York. He said that for some reason his rifle had lost its gilt-edge accuracy, and would not perform as well as it had done on his own home range.

## BULLET PERFORMANCE

(Continued from page 13)

instead of getting well home before they start to mushroom out.

After a year or two of experience with lead-tipped bullets made for these smaller-bored weapons, I evolved a missile which I consider almost perfect for the work required of it. Invariably I purchased hard-pointed nickel-jacketed ammunition from the store, and with a fine file rubbed down the tips of the projectiles till the very smallest pin-point of the inner lead was exposed. I took great care to go no deeper; indeed it was best to stop filing just before the lead was reached. This proved to be an ideal expanding bullet for the type of rifle. The thick ring of nickel covering round the top of the missile stopped it from breaking up too quickly, and prevented it from shattering into half a dozen bits as the average factory-made soft-ended bullet would have done. Instead it remained in one piece, and retained its driving force, combined with great tearing capacity. The two bullets illustrated in Figures 5 and 6 are speci-

mens fired from a .303 rifle, and cut from sable antelope which they killed. I possess also many other similar specimens which have been taken from animals ranging from lion to wart hog.

Some shooters may criticize the filing of the tips of solid-pointed bullets, owing to the fear that the lead may blow out through the nickel upon discharge, leaving the coating in the barrel, with disastrous results at the next shot. I consider that such a contingency could be possible only if the whole upper part of the bullet were filed away, leaving but the lower cylindrical jacket. By merely touching off the extreme tip of the bullet the jacket still remains cone-shaped, making it impossible for the lead to force its way out unless it were in a melted state.\*

The copper-pointed bullet is coming into vogue nowadays, and in many ways it is an improvement on the missile tipped with soft lead. But even these are liable to



shatter excessively upon impact with a bone, and lose much of their efficacy.

A word on explosive bullets—projectiles containing a cap of fulminate of mercury or similar compound. I personally have never used such things, and I have never come across any hunter that has done so. But, speaking without actual experience of them, I should say that a missile which bursts and scatters upon striking would be worse than useless. It is not a surface wound that kills, but one that drives right home through the animal. Unless they were fitted with delay fuses, like shells for heavy artillery, I cannot see how an invariably fatal wound could be accomplished. Though this type of bullet is the stock ammunition used by the hero of the novelist who has never been in Africa, as

\* NOTE: While Mr. Robertson experienced no trouble from bullets that had had their points filed, many bullets of American manufacture are so constructed as to make even a light filing of the points decidedly dangerous; and more than one accident from this cause has been recorded.—Editor.

I say, I have never come across them during all my years of hunting in that continent.

Though a well-designed bullet can accomplish much in the way of killing big game cleanly and instantly, it is the man behind the gun that counts the most. Unless a prospective hunter has a reasonable knowledge of anatomy, and can handle a rifle properly and shoot straight, he should stay at home. Nothing is more sickening to a real sportsman—a man essentially merciful and a lover of nature, for all that he slays his quota of fauna—than to come upon beasts dragging broken legs, and with other wounds caused by some inept shooter.

There are three fatal spots in which to hit a beast: spine, heart, and lungs. When dealing with elephants and other great game, the brain shot can also be added; but this is one which is seldom used for smaller creatures. The spine shot, especially in the neck, always brings a beast instantly to the ground; but the long narrow target offered by the vertebral column is one which is difficult to hit accurately. A bullet placed a shade above or below will have scarcely any effect beyond a possible temporary stunning, and an animal with such a wound will often go for miles and be lost completely.

My experiences of shots through the heart is that their effects vary considerably. A missile, especially an expanding one, through the upper part of the heart and the great arteries, nearly always results in instant collapse, but a wound through the lower half of the heart is by no means so swift in causing death. I have known animals shot through the lower heart to go off at a cracking pace for a considerable distance before they fell; and, though the beasts drop eventually, they are often hard to trail and find in the thick forest.

Perhaps the most satisfactory place in which to hit a big antelope is through the lungs. These form the largest mark of any vital spot in the beast's body, and the wound takes effect almost immediately. I have never known an animal so struck to fail to stop, stagger, and drop dead within a few seconds of being hit. Often a bullet striking through the lungs from a frontal angle also rakes the heart, and this combination forms the hunter's most deadly shot.

Somewhat different circumstances govern the brain shot for elephant and rhinoceros, for no bullet, however solid and unbreakable, will penetrate the massive bones encountered if it strikes them at an angle. It will whizz off at a tangent, and the hunter will probably find himself the object of a fierce charge from the justly infuriated beast. If the projectile is aimed exactly, however, and strikes squarely on the surface of the bone, it will bring down the mighty pachyderm as if it had been struck by a thunderbolt.

## SURPRISES FROM AN OLD ONE

(Continued from page 25)

to cut down the fouling, and I have had fine results with it, firing as many as sixty or seventy shots without any cleaning of the barrel, and with no leading or falling off in accuracy.

As I was using a bullet that had been well lubricated I decided not to monkey with greased wads, and all my loads have been with the Semi-Smokeless powder on the bottom of the chamber, then the small charge of No. 80, and finally the lubricated bullet, rammed down firmly but not hard enough to crush the powder grains.

Having what I thought to be about the right load, I had the range boy put up a nice clean 25-yard pistol target, as I had decided to try the gun first for group at that range. Anyone familiar with these old Remingtons knows that the barrel has a very decided upward slope, and I figured that I had better aim a little low for the first shot. I held at the bottom of the target, which is 14 inches below the center of the bullseye, and when the old girl belched forth the first shot, I found a nice round hole just about 30 inches above the 10-ring. The maker of that gun must have sighted it in for not less than 80 or 100 yards, or else my load was all wrong. The shot hole was so well centered above the 10-ring that I thought it best to take a still lower hold instead of making any change in the powder charge, and I therefore put a black sticker just about four feet under the bullseye, and using this as an aiming point, fired the remaining five shots. The result is the group shown. It measures just 1 inch from center to center of the widest bullet holes, and is well covered with a half dollar. To say that I was surprised is putting it mildly; I was "plumb flabbergasted." My respect for the old gun started up right there, and the more I shoot it the more surprised I am and the more respect I have. If this 70-year-old revolver will shoot this misfit bullet the way it does, what will it do with the right bullet and correct powder charge? But I haven't tried it with any other, and don't intend to so long as it performs in such fashion.

Now a hold almost four feet under where I want to hit is not exactly my idea of close holding, so the first thing to do was to have a higher front sight. I had a low ramp built, and then  $\frac{1}{10}$ -inch front sight let into this, and left a little high so that I could file it down and get a point of impact right where I held at 25 yards. The rear sight is just a notch cut in the top of the frame; but,

as I didn't wish to mar the gun unnecessarily, I let that alone, and have found it reasonably satisfactory.

After shooting a number of targets at 25 yards over a period of a month or more, and continuing to have good success, I grew cocky and thought to try out the same load at 50 yards on the Standard American target for that range. Strange to say, I found that my sights for a center hold at 25 yards gave me a perfect 6 o'clock hold at 50 yards. My first target counted 88 x 100, and while this is not a high score by any means these days, neither is my gun a target model with a trigger pull of  $2\frac{1}{2}$  pounds; and when a later score of 90 x 100 came along, I was mighty well pleased with the afternoon's work.

The Remington frame is evidently amply strong, for on occasions when I have felt especially vicious I have loaded in all the FFg Semi-Smokeless the chambers would hold and still take the 230-grain bullet, without any effect that I could see except a louder report and the slap of the bullet following much closer behind. I tried this load at about 20 feet on a common building brick, with most satisfying results. The brick went into about two dozen pieces, that were scattered over a 15-foot area.

Now I don't intend to give up my Camp Perry with Roper grips for slow-fire shooting at 50 yards, or my Officers' Model for firing over the National Match Pistol Course, but at the same time I am glad that I took time out to try this old cap-and-ball gun. I know that it is accurate far beyond anything I had expected, and that good offhand shooting could be done in the old days. All the shooting I have done has been in the regular offhand position without any arm or elbow rest. The gun is heavy, all right, but the grip fits the hand so naturally that it seems to hang surprisingly well.

I still don't believe that Nasty Ned shot the coat buttons off Pesky Pete back in 1860 when these guns were new, but I do know that if he had a gun as good as mine it would have been possible for him to make Pete very unhappy, even up to 100 or 125 yards.

## LONG SHOTGUN BARRELS

(Continued from page 11)

so on through the entire powder charge until sufficient pressure has been developed to start the filler-wads in the direction of least resistance—toward the muzzle; these wads in turn forcing the shot forward through the forcing cone and into

the bore. These progressive nitros, instead of literally "kicking" the shot column through the forcing cone—with the resultant shot deformation that obtains with the older nitro powders to a greater extent than is realized by the average shooter, more gradually "push" the shot on its way, with less crushing and deforming. Therefore better patterns result; and as with black powder, the maximum pressure is developed in the shell chamber and the first 3 or 4 inches of the bore, and gradually falls off as the shot charge nears the muzzle.

These new nitros also show a decided flash of red-hot powder grains at the muzzle, as does black powder, but gunmakers of today are not deceived into thinking that this means preventable loss of energy or propelling power, as they were years ago. They now know that any powder employs only about one-third of its energy in driving the shot charge; one-third being lost through heat radiation, etc., while the remaining third is blown out of the muzzle.

No, longer barrels will not again become the vogue. There really was no valid excuse for them years ago. There was in their favor a slight gain in velocity and a greater sighting radius, but to offset these small advantages was an unwieldy gun: muzzle-heavy, cumbersome, unbalanced.

During the last score of years American gunmakers have made great progress in the designing of arms, and this is especially true in the case of double shotgun barrels. There has also been a great improvement in materials used. One manufacturer, by employing heat-treated alloy steel in double-gun barrels, has been able to reduce weight and still retain ample strength to withstand the pressures developed by the heaviest loads procurable. However, they found it necessary to bore several ounces of wood out of the buttstock to complement these lighter barrels and maintain proper balance: just opposite to the procedure of many factories only a few years ago.

Instead of turning to longer barrels, it is but a matter of time before all makers of double shotguns will be using heat-treatable steels in their barrel tubes; and, because our native walnuts are heavier than those that are imported—especially in the fancy stump and feather-figured grades—they will have to lighten the buttstocks, especially in the case of the lightweight guns used for upland game. For clay targets, at either trap or Skeet, a heavy gun properly balanced is not objectionable; and in fact the followers of these sports like plenty of weight in their guns.

# The Fourth Indiana (Pa.) Shoot

By J. K. SCOFIELD

**D**ESPITE temperatures that kept the mercury near the 105° mark throughout progress of the matches, the Fourth Annual Small-Bore Tournament at Indiana, Pennsylvania, July ninth to eleventh, attracted only a few less shooters than were at Ritchie the previous week. Exactly 143 small-borers registered during the 3-day meet.

An example of the results which may be expected of a wide-awake club, this meet has become one of the most important in the East. Organized by the Indiana Rifle Club, its success has been largely due to the efforts of Alan B. Salkeld, club secretary and enthusiastic promoter of the shooting game in Western Pennsylvania.

Six of the N.R.A. staff, headed by Secretary C. B. Lister as executive range officer, superintended the matches, with Frank Kahrs, Virgil Richard and Russel Lent assisting on the line. Francis Dugan, down from duPont, took care of the squadding with John McGuire and Frances Lister taking registrations and handling the marking and distribution of targets. Miss Jerry Tweed, local debutant, assisted L. Q. Bradley and W. G. ("Nick") Nicholson with statistics and scoring.

The shoot really began on the eighth of July with a day of re-entries. Russ Lent, first to arrive, kept the range moving all day until the full staff arrived. The first squadded match of the series, fired the next morning, was the 50 Yard Individual, iron sights. The heavy mirage that was to characterize the entire shoot took its toll and only three possibles were recorded out of a field of 85 entrants. C. A. Bickerstaff, of New Kensington, Pennsylvania, a comparative newcomer to the top rank of small-bore shooters, turned in a score of 200 with 14 X's to win the Fisher Trophy, a gold medal and \$33.50. Second, with only 10 X's was Virgil Canfield of Akron, Ohio.

Only other match of the first day was the Short-Range Individual, a Dewar Course any sight event. Again Bickerstaff came out on top, leading with 399 to take the Joseph Gray Trophy. A. J. Thill and Thurman Randle, with the same score, were creedmored to second and third places, respectively.

The ever popular Camp Perry Special, metallic sights over the Dewar Course, began Friday's shooting, with the morning giving promise of heat and mirage aplenty.

First award in this match was an Unertl scope, at which most of the shooters looked a little enviously. Paddy O'Hare,

running low on scopes, borrowed it, and then perhaps with malice aforethought, sent son Francis into the match. Francis went clean over the 100 yard stage and dropped but one at 50 to run up a score good enough to take top place. Paddy kept the scope. T. T. Charlton, last year's winner, placed second; one point below Francis' total to win a \$40.00 check as expense money for Camp Perry.

The 50 Meter Two-Man Team Match called for 20 shots per man. The sun must have agreed with smiling Tom Arnold and his partner, A. J. Thill, who cleaned up with a score of 397.

The last match of the day was for the Alan B. Salkeld Trophy, with a course of 20 shots at 50 meters, iron sights. Darkow, only one point down, wrapped his arms around the trophy and pinned on the gold medal. The Old Cowhand from Texas, Randle, turned in the same score, but was creedmored to second, and Dave Bashline placed third with 198.

Friday evening a banquet was staged at the Indiana Hotel, with 96 attending. As at the St. Petersburg shoot, Thurman Randle was toastmaster and timed the relays. Chief speakers were Congressman Gray of Pennsylvania, representing the Indiana district, who assured the shooters of his support in Washington, and C. B. Lister, who explained much that goes on in the N.R.A. seldom considered by the member.

Saturday was no exception to old Sol, who arrived on the range long before the first relay. The opening match was the Dewar Two-Man Team, iron sights. Canfield and Darkow clicked with a team total of 796 for first; Charlton and Rider and Bashline and Israelson with the same placed second and third down the line.

In this match Dorothea Kelly ran up a new world's record for women in squadded competitions by turning in a possible score.

G. D. Blakeslee took prize place in the 100 Yard Individual with a possible and 11 X's. The next four places, all with clean scores, were H. D. Griffith, R. D. Berkheiser, C. F. Black and Ward Kline. The Two-Man Short Range was the last squadded match of the series and again Darkow and Canfield placed first. Thill and Arnold with 794 and Tiefenbrunn and Tarr with 793 rated second and third.

By the time the Canada vs. Pennsylvania team match was ended with the Pennsylvanians victorious 3907 to 3878, the Aggregate was posted, with A. L. Darkow's consistent shooting bringing him \$33.90 and a 10-X shooting coat as

first place awards. Thurman Randle and "Old Bacon Gitter", two points lower, took second and Virgil Canfield placed third with one point less than Randle. H. D. Griffith in fourth place captured the Governors Trophy, awarded to the highest Pennsylvanian.

Down in twentieth place an unusual situation arose. More shooters were hoping for this rating than for first, because to the competitor placing twentieth Eric Johnson was to award one of his match barrels. Four competitors had equal scores, but after grouping the 100 yard stages in the long range events, Milton Klotz won over his nearest rival, Dorothea Kelly, by a single X.

## JOHN DUBIEL

**M**ORE than a year ago we felt it necessary to advise the members of this Association through the columns of this magazine that John Dubiel, a gunsmith and custom gun builder, Ardmore, Oklahoma, was so far behind in his orders that he was not rendering satisfactory service.

We are very glad now to be able to say that Mr. Dubiel has for several months been rendering satisfactory service both as to deliveries and quality of workmanship. He is without doubt one of the finest workmen in the business. We still wish to make it clear to our readers, however, that Mr. Dubiel, because of the quality of his work, is always busy, so that any material increase in the amount of business he is now doing will of necessity again result in delay in deliveries.

THE AMERICAN RIFLEMAN cannot accept responsibility for such delays, and recommends that any orders placed with Mr. Dubiel by members residing at a distance from Ardmore be placed only after the member has corresponded with Mr. Dubiel and made the necessary arrangements for having the work done. In no case should arms be shipped to Mr. Dubiel and a letter of instructions written later, in expectation that the gun will be returned promptly.

We repeat, Mr. Dubiel is a master craftsman and there is naturally a limit to the amount of work he can turn out, and neither he nor any other gunsmith wishes guns sent to him unless preliminary arrangements have been made by correspondence to have the work done.



*Air view of the Zeppelin Shoot taken from a Goodyear blimp*

## The Zeppelin Shoot at Akron

By C. E. SCHETTER

**T**OUGH competition representing 10 states; fair weather; an excellent range set-up and a fine array of attractive trophies, medals and cash prizes—all combined to make the third annual small bore tournament of the Goodyear Tire & Rubber Company's Zeppelin Rifle Club in Akron, O., a most highly successful event.

The 13-event, two-day program got under way at 8 o'clock on Saturday morning, August 1, with 70 early entries on the firing line for the 50-meter, any sight individual match. The Zepps are quite determined to bring their annual event up to a position where it will be second to none except Camp Perry, and with that end in view have enlarged their short range firing line to accommodate 80 competitors at one time. Thus it was possible to accommodate the shooters in the opening match in one relay.

R. E. Loudon, of Butler, Pa., who had driven 90 miles to arrive in time for the opening match, found that the drive had no ill effects on his shooting and proceeded to score 40 successive 10's in the event to equal the existing record and earn his first trophy and medal of the tournament. A pair of keen eye Zepps totaled 398 to rank second and third. They were Merle Israelson and M. A. Klotz.

V. Z. Canfield, who spends much of his time coaching juniors and has developed many fine marksmen, took first in the DeWar individual event, the second match on the program, with a 398. Canfield ultimately was returned the winner of the grand aggregate event and captured the fine Litchfield trophy. It was the third straight year in which a member of the

Zeppelin Club successfully defended the premier trophy of the shoot, although the margin of victory in this instance was so close that the final outcome was in doubt until late Sunday evening.

Canfield chalked up 1481 out of 1500 points possible and W. B. Woodring, of East Alton, Ill., ran up a total of 1480. Merle Israelson, whose name was the first to be inscribed on the Litchfield trophy, also was a serious challenger. He also scored 1480, but was outranked by Woodring.

Earl Mercier, E. Alton, Ill., R. E. Loudon, of Butler, Dorothea Kelly, of the Zepps, and Fred Johansen, of Joliet, Ill., finished down the line in the order named, in the grand aggregate.

Second place in the DeWar Individual went to John Campbell, member of the Argonaut Club, in Akron. Both he and A. L. Darkow, of the Zepps, shot 397, but Darkow was ranked to third place.

The Saturday afternoon phase of the program opened with the DeWar two-man team match, an event which was taken for the second successive year by Canfield and Darkow of the Zeppelin Club. Their 794 was equalled by Woodring and A. Franz, of E. Alton, but the home club team had the highest ranking. V. J. Tiefenbrunn, of St. Louis, and Mercier, of E. Alton, were third with 791.

D. A. Bashline and Israelson, of the Zeppelins, came out on top in the next scheduled event, the 50-meter two-man team match. They compiled a neat 397 to take top honors, outranking Woodring and Franz, who made the same numerical score. Third place went to M. E. Altimus and William Patriquin, of Nanty Glo and Ernest, Pa., respectively.

The next two events of the program, the American Legion match and the woman's cup match, were fired simultaneously over the same course of 20 shots at 50 meters.

The Zepps have gone a long way to encourage women to shoot with their club and participate in their matches, with the result that they have a collection of women shooters that can not be overlooked by even the topnotch male contestants. This fact has been attested by the fine showing of Zeppelin girls in various regional matches and their accomplishments in the Akron tournament.

Mrs. Helen Hale, who will tip the beam of any truthful Fairbanks at no more than 90 pounds, took upon her own tiny shoulders the task of winning the woman's cup, accomplishing the job with a 198 score on the difficult 50-meter targets. Margaret Markey, the promising school-teacher rifist from Munhall, Pa., took second place for the second year running with 197. Dorothea Kelly, another member of the Zepp's collection of Amazons, also had 197 for third place. Incidentally, Mrs. Kelly was good enough to place sixth in the grand aggregate, despite the fact that she was not up to her acknowledged par—which may give an idea of the type of shooting these girls deliver.

While on the subject of the girl shooters, it may be mentioned that Minnie McCoy, a third member of the woman-ace division with the Zeppelin logotype on her shooting jacket, placed fourth in the 100-yards any sights event and fifth in the 50-meters metallic sights contest. There were 109 entries in the first match and 90 in the second and there were many well known shooters of merits who finished well below her scores in both events.

Dana Scarborough of the Zepps found the bullseye on his 50-meter target card with all 20 shots to take the Legion trophy. Loudon, with 199, was second, and M. L. Kobler, Monmouth, Ill., was third with 198.

Scores for the DeWar international match with England were shot off to wind up the first day's program, the net result being 3974 x 4000, with Woodring's 400 pacing the 10 team members. Two of Woodring's teammates, Mercier and Tiefenbrunn, finished behind him in that order with 399 and 398 respectively. A glance at the team total indicates a neat average of 397.4 per man. The average of the 20-man U. S. DeWar International Team which established the present record score at Camp Perry in 1934 is 396.8.

The Zeppelin three-stage individual match proved the most attractive event on Sunday, with 112 contestants entered. Woodring dropped only four points out of 500 possible to finish a single point north of C. F. Rider of New Kensington,

Pa. In winning this match, Woodring gained possession of the new Zeppelin Arms trophy, the largest cup at stake.

The 100-yard any sights individual event drew 109 entries, including Ray Louden, who took the match with a 200-11x score.

In the 50-meter metallic sights match, Israelson and Canfield strengthened their bids for the grand aggregate championship, the former with a 399 for first place and the latter with a 398 and third place. John Bernauer, of Beaver, Pa., also scored 398 and was ranked third.

The long-range individual, 20 shots at 200 yards, proved to the liking of the boys from the Cleveland area, Joseph Seres, of Lorain, taking the event with a 198-8x score and A. E. Hart, the Cleveland gunsmith, scored 196-7x for second place, outranking Israelson, who had the same score and took third place. In fact, eight contestants entered in this match shot 196's and all places had to be established by N.R.A. ranking methods.

The closing event of the program was a 50-meter international match with Russia. Israelson earned number one position with 598. Two of the Zeppelin girls made this team, Miss McCoy with 595 and Mrs. Kelly with 593.

Aerial photographs of the shoot were taken on the second day of the tournament from a Goodyear blimp which flew over to dip in salute to the visiting marksmen.

The Goodrich Rifle & Pistol Club, business as well as sports competitor of the Goodyear boys, turned out in full to support the Zepps tournament, entering about one dozen of its best shooters in all events—an excellent tribute to the good spirit of friendly competition which prevails in the shooting sports.

The program was registered and sanctioned by the National Rifle Association. It was ably directed by C. B. Lister, who was assisted by several of his ace staff members including L. Q. Bradley, H. H. Goebel, W. G. "Nick" Nicholson, and F. A. Moulton. Frank Wyman of Tampa was also with the N.R.A. staff at this shoot.

The approved N.R.A. double target system, coupled with the elimination of competitors' numbers on match targets, was used in all of the short range matches and worked out very efficiently.

Members of the Zeppelin club's annual tournament committee were beginning to put serious thought behind plans for their 1937 open, almost before the acrid fumes of gun powder had blown away on Sunday night. The Zeppelins are planning to introduce a number of features in 1937 which attract many more contestants than the 148 registered in this year's successful event.

## Dr. Paul Burrill Jenkins

**M**EMBERS of the Association, and his many friends among the older gun lovers, will indeed be sorry to learn of the death of Dr. Paul B. Jenkins, which occurred at his home in Williams Bay, Wisconsin, on August 4th. Doctor Jenkins, who was 64 years of age, had been a sufferer from heart trouble for some time.

Doctor Jenkins first came to the attention of the riflemen of America as a result of his contributions to the old magazine *Outers Book*. He succeeded Mr. R. A. Kane as arms and ammunition editor of that magazine, and after its demise

he contributed widely to many magazines including *THE AMERICAN RIFLEMAN*.

Until his impairment in health, about five years ago, Doctor Jenkins was pastor of the Immanuel Presbyterian Church in Milwaukee. He was a great historian as well, and was author of many works dealing with the history of his state. He was also greatly interested in the history of firearms, and was one of the curators of the wonderful collection of arms in the Milwaukee Public Museum. At the time of his death he was working on an exhaustive history of firearms in America.

The writer first met Doctor Jenkins in 1916 when the latter brought twelve young men of his congregation to the Plattsburg military training camp where I was serving as an instructor. This was very indicative of Doctor Jenkins' character. He was distinctly a leader among men, and stood for everything that was good and clean in America. During the World War he served as chaplain of Base Hospital No. 22 in France, and was on the front lines during the American drive on the St. Mihiel sector.

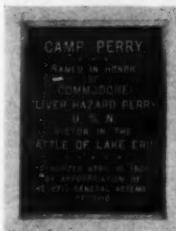
I consider that Doctor Jenkins was the best posted man on old American arms, and on the history of arms. Not only is his loss a severe one to us, but it is to be regretted that the work he was engaged upon at the time of his death can never be completed. It was a distinct privilege to have known Doctor Jenkins and to have numbered him among my personal friends; and I am sure that I voice the sentiments of the Riflemen of America when I say that we shall miss him greatly. TOWNSEND WHELEN.

## Norman S. Brockway

**I**T IS WITH much regret that we record the death, on July 25, of Norman S. Brockway, of West Brookfield, Massachusetts. Mr. Brockway was one of the finest riflemakers this country has ever known, back in the percussion muzzle-loader days, and his target rifles won fame throughout the land for their superb accuracy. And even today, Brockway rifles that have been carefully preserved these many years, are again spreading their fame throughout the muzzle-loading world. And happily, Mr. Brockway lived to see this take place.

An account of Mr. Brockway and his work appeared in our July issue of this year, and Mr. N. H. Roberts is preparing for us another article on Brockway rifles, he having made a special trip to West Brookfield to interview Mr. Brockway and obtain material for this article.

Mr. Brockway was 95 years and 4 months old at the time of his death. He was a superb mechanic, and a resourceful and scientifically-minded man.



*This new monument erected in honor of General Critchfield, founder of Camp Perry, is to be dedicated about September 1st. Located on the main street in front of the new Concession Building, the Georgia marble structure stands 18 feet high and is 18 inches square. It was erected and financed through state funds. Photo courtesy Louis Warner*

## PREMIUM ON CIVILIAN RIFLE CLUB BOND

ALL civilian rifle clubs issued arms and target equipment by the Director of Civilian Marksmanship must file with the Director of Civilian Marksmanship a bond covering the safe keeping and return of the Government property.

In checking the bonds now on file in his office, the Director of Civilian Marksmanship has found many clubs are paying premiums in excess of the normal premium, which is \$10.00 for two years. Some clubs are paying as high as \$20.00 per year. The normal premium of \$10.00 for two years covers any amount from \$100.00 to \$1,000.00. Clubs paying in excess of \$10.00 for two years should request the Director of Civilian Marksmanship to furnish a blank bond form and take out a new bond.

The amount of the bond for all regular civilian rifle clubs is \$500.00; for high school or other school rifle clubs the amount is \$1,000.00 each. The bonding company must be one having authority from United States Treasury Department to execute Federal bonds. A list of these companies may be obtained from the Director of Civilian Marksmanship.

—R. H. LORD, Major, Infantry, Assistant.

## RHODE ISLAND STATE MATCHES

(From the Providence Journal)

CAPT. T. J. Walker of Fort Devens, Mass., a member of the Middlesex Sportsmen's Rifle Club, and Leo Sevigny of the Snipers Rifle Club, walked off with major honors in the annual Rhode Island small bore tournament held on the Providence Police Range in Cranston, July 4 and 5.

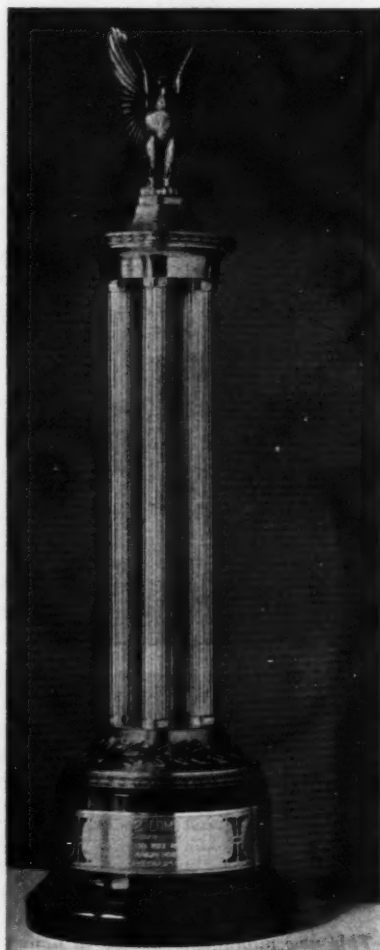
Capt. Walker took three first prizes and two seconds. One of his best achievements was in the R. I. 50 and 100-yard individual match where he had 25 hits inside the X ring in his 398 total. Walker was awarded the Rhode Island State Rifle and Revolver Association trophy by Col. Archer F. Williams, president of the State association.

Leo Sevigny, who made a fine showing on the first day, continued to share in the prizes and won the R. I. small bore individual championship match with 572 points. Governor Theodore Francis Green visited the range in the late afternoon and personally presented the Governor Green trophy, emblematic of the small bore championship, to Sevigny. Capt. T. J. Walker was second with 563 points.

Joseph A. Cartier presented a trophy to Robert Clark of Waterbury, Conn., who won the R. I. junior championship, and Frank B. Perry awarded a trophy to Katherine V. Choden, also of Waterbury, for her victory in the R. I. Women's championship.

Ward C. Hunt of New Haven made an excellent showing in the R. I. Rapid-Fire Match at 100 yards. He won this event with 10 hits within the center circle.

Comdr. Alfred Stevens of the Providence police department was executive officer and was assisted by Col. Archer F. Williams, chief range officer; Capt. Joseph M. Gambao and Edwards Hovas. Frank B. Perry was statistical officer with F. W. Donahue, Jr., and E. F. Hawes as his assistants.



New Bausch & Lomb Trophy, seven of which are being donated to active state rifle associations for annual competition. The trophy stands 32 inches high and was designed under supervision of R. G. Walker, Specialty Sales Manager for Bausch & Lomb, who is responsible for the new awards

## NATIONAL MATCH TEAM TRAINING

WITH the National Matches getting under way at Camp Perry the matter of team training, always an interesting subject, is of timely significance right now. Accordingly we are publishing the following note on the subject from N. R. A. Director, Captain E. C. Crossman, who writes as follows:

I quote herewith in part a letter from my former C. O. during my Army service in 1919, Col. William C. Harlee, U. S. Marine Corps, retired, now candidate for Senator from South Carolina; on the subject of nerves and a rifle team:

"Friend Ed: Thanks for the reference to me in your article, 'The Lapse of Time' in the June, 1936, issue of THE AMERICAN RIFLEMAN.

"Although I have never countenanced alcoholic indulgence among my riflemen, my observations have convinced me that men who have over-slept are not in the best form for rifle contests and that their nervous systems are more relaxed when they go on the firing line with minds not dulled by too much repose and bodies not pulsating with vigor from over-sleep.

"You may remember that in the National Matches at Camp Perry in 1918, the Navy Team, composed of youths who had never before been to a National Match and who, until they entered the service about a year previously had never handled a rifle, led the field including the veteran Marine Corps team in the rapid fire and every other stage until the long range stage where long experience counts so much.

"The Navy Team during the matches was not permitted to sleep until long after midnight and went on the firing line each day after only a few hours sleep the previous night."

And for some strange reason, many a man who has stayed up until the smaller hours just before the dawn, has gone out on the Skeet field and shot like a champion, while poor varlets who eschewed evil companions and low roisterers the evening before and crawled into the blankets only three hours later than the Plymouth Rocks and Leghorns, went out on the field next morning as full of jitters as a political convention is full of wind and missed practically everything but the high trap-house.

So maybe we know a lot of things that are not so as to this matter of training in the few hours prior to a big match. I admit, however, that staying up until 3 G. M. would be a sad and lonely task for a firm believer in strict prohibition. Whoever heard of making whoopee and staying up late on Coca-Cola or Root Beer?—EDWARD C. CROSSMAN.

## RECENT ILLINOIS MATCHES

ON JUNE 28 the Illini Gun Club of Champaign-Urbana, Ill., inaugurated its fine new range with an attractive program of small bore matches which drew entries on a state-wide basis. Close to a hundred of the brethren registered for the various events. Quite a few of the competitors came from Chicago, Aurora, Joliet, Milan, Springfield, Mt. Carmel and other points one to two hundred miles away.

Naturally enough the Dewar course was the big event of the program, particularly as it was a combination team and individual match. The Mt. Vernon Rifle Club with an aggregate of 1,960 captured top honors by the scant margin of one point over the Springfield "Y." L. W. Mason of Aurora turned in a fine 398 for first place.

Small bore occupied the spotlight during July at Fort Sheridan with two important competitions scheduled—the annual Wimbledon, a 200-yard any sight event on the 12th, and a combination individual and team Dewar course on the 26th. Competition in both matches was exceptionally keen as evidenced by unusually high scores.

R. L. Sanders, hard-working range official, took time off from his pit duties to crack out a fine 197 that clinched first place in the Wimbledon. Ray Converse, Fred Johansen and C. E. Nordhus contributed a set of 195's in a tie for second but were ranked in the order listed. Bob Lovell captured fifth with a 194. Winners of class medals included Price Brown, J. S. Murphy, Chas. Dennis and A. L. Tange. The high average of scores is shown by the fact that Dennis, who topped C class, shot a 188.

As a preview for the Illinois-Wisconsin, which was fired a week later, the Dewar team and individual match on July 26th, a "registered shoot," was a huge success. Illinois chests expanded noticeably when the final score tabulation disclosed that fifty-one out of the eighty-three entrants turned in scores of 390 or better. In fact twenty-five registered 395's or better which is pretty fair marksmanship on any man's rifle range. It took a 394 to win a class B medal and a 388 to head the class C aspirants. The high twenty shot an aggregate of 7,929.

Earl Mercier, who scored 399, was closely pressed by E. K. Waters, 398; Fred Johansen, 398; E. J. Neumann, 398; and Fred L. Martin, Milan's impresario, 397. M. L. Kobler of Monmouth topped B class; J. W. Duffy was second in that group. C class winners were: J. A. Matzka, Jr., of Champaign, and R. Holley of Chicago. The team title was lifted by the East Alton Rifle Club, which averaged 397, for a total of 1,985. Blackhawk Rifle

Club, Chicago, was second with 1,976 and the Milwaukee Rifle Club, 1,967.

Wisconsin shooters evidently did not read the bulletin sent out after this match, or, if they did, they failed to be properly impressed. For a week later, when the Illinois "wolves" prowled at County Line range, Racine, during the "Interstate," the latter proved to be just another rifle team and not the scourges that the scores of the 26th might have led them to believe they were. Woe is us, Wisconsin won as will be recounted subsequently by the Badgers' poet laureate and his lyric assistants.

On July 26th "thirty" marksmen fired over the national match course (less the thousand yards stage) on the Ft. Sheridan range. C. E. Nordhus with a 188, which included a possible at 300 rapid, was high gun. Ralph Izard, veteran Chicago Rifle Club member, turned in a 185 which included a possible at 200 rapid. Axel Gordon, 184, was third and Fred Ruffalo, fourth. Major H. D. Goza won the B class medal.—J. SHERWIN MURPHY.

## FIRST TEXAS INVITATION SHOOT

(From the *Temple Daily Telegram*)

WHAT was termed the largest outdoor small bore .22 calibre rifle invitational tournament ever held in Texas, was run off under the auspices of the Temple (Texas) Rifle Club at its range south of Temple, near Midway, on Sunday, July 12.

M. C. Greathouse of Fort Worth took off the premier honors for the aggregate total of all matches, having a score of 795 out of a possible 800. V. A. Moore of Dallas was second with a score of 794, Frank W. Norris of Temple and L. P. Bartlett of San Antonio were third with a score of 793.

Sixty-two entries from Fort Worth, Dallas, Temple, San Antonio, Lampasas, Hillsboro, Chicago, Austin and Waco participated.

Competition was so spirited that perfect scores failed to win in several of the events. For the 50-yard any sights match, for instance, four shooters with a possible score were required to shoot off the tie to determine the winner.

In the Temple rifle club aggregate scores, Charles H. Jones with 769 out of 800 won the gold medal. W. D. Webster was second with 764 and Othell Abbott was third with 763.

The new double target system was used and the scoring was more than satisfactory, there being not a single challenge or dispute registered. Lieutenants Benjie A. Zinn and Howard K. Dodgen, as range officers, handled the match very smoothly.

## The Woodchuck Hunter

By Paul C. Estey. Published by The Small Arms Technical Publishing Co.; 135 pages; illustrated; bound in Sturdite. Price, \$1.50. Sold by N. R. A.

I HAVE read my friend Paul Estey's book with intense interest, for Paul and I have had many fine chuck and deer hunts together,

Paul, besides being the most efficient and experienced chuck hunter that I know, and a most remarkably fine rifle-shot to boot, is a keen lover of nature, and the love of his beautiful country,—its hills and streams, its game and its birds, crops out throughout his interesting little book. It was a perfect delight to read it.

Paul has studied the habits and traits of woodchucks the year round. He has lived with them and understands them as no one else does. His first chapter deals with their life history and habits. Then he goes on with a most complete and thorough description of the necessary equipment for hunting them: various chuck rifles, telescope sights, etc., etc. He covers in detail all of the various makes, models, and calibers of rifles, the best types and their fittings, the cartridges, and the best handloads for them. And he knows his stuff from A to Z because he has owned, used, and experimented with every one of the rifles and cartridges he describes. Not only does he live in one of the finest chuck countries in the world, but he has a little range and bench rest of his own, and in his home he has full equipment for handloading and all kinds of tinkering and experimental work. The advice that he gives is sound and up to date.

Like a true rifeman, Paul glories in successful shots at long range, and always passes up the easy ones. He believes in giving the game a chance. But most of all he loves the surroundings: the green hills, the luscious meadows, the clear gurgling brooks, the apple trees in blossom, the song of the birds mingling with the shrill whistle of the chucks. His last chapter, "Ramblings Afield," takes you out with him into his country; makes you see and feel the beauty and quiet and fascination of it all. That chapter is worthy of ranking with some of the best of Burroughs' writings.

I hope all rifemen will read this little book. If they aspire to hunt the woodchuck, or any other varmint, they will profit greatly by the information contained; and if they are nature lovers—as they should be—they will be charmed with the descriptions of the chuck meadows and the days spent on the quiet New England hillsides.—TOWNSEND WHELEN.

## MEDAL WINNERS N. R. A. OUTDOOR MATCHES

Results of the new outdoor program of home range rifle and pistol matches are published below as a matter of official record.

Success of the new program is best measured by the very definite increase in total match entries. For several years past, the outdoor program has included some sixty events, many of which each year had to be canceled due to insufficient entries. The new program included but twenty-six matches, yet the curtailed program attracted one-third more shooters than participated in the more generous schedule of last year.

With the announcement of the new program, certain changes were made at National Headquarters with a view of taking care of the anticipated increase in entries, and also to improve the service to shooters by immediate mailing of targets and prompt publication of results. Under this new set-up coupled with the simplified program, many improvements already have been put into effect and plans are now being made to revamp the indoor N. R. A. home range program along similar lines.

Medal winners in N. R. A. outdoor rifle events follow. (Medal winners in pistol events will be published next month).

### Match No. 1

#### INDIVIDUAL SHORT RANGE MATCH (METALLIC SIGHTS) (147 Entries)

*Conditions:* Open to all. 20 shots at 50 yards and 20 shots at 100 yards, prone, metallic sights. To the winner a 10-K gold medal; second, a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. Capt. T. J. Walker, Fort Devens, Mass....	399
2. C. H. Vincent, Utica, Michigan.....	398
*3. Chas. G. Hamby, Atlanta, Georgia.....	398
*4. A. J. Henrich, Queens Village, N. Y.....	398
*5. M. L. Kobler, Monmouth, Illinois.....	397
*6. E. C. Hamley, Glendale, California.....	397
7. M. T. Salter, Atlanta, Georgia.....	397
8. Estel Huffaker, Marion, Indiana.....	397
*9. Ted J. Holm, Des Moines, Iowa.....	397
*10. George W. Sawyer, Queens Village, N. Y.....	397
*11. Jas. S. Seres, Lorain, Ohio.....	397
*14. A. R. Martin, San Antonio, Texas.....	397
*15. Milton Domras, Bowmansville, New York.....	396
*16. Frank James, Bowmansville, New York.....	396
*17. Delbert Durham, Peoria, Illinois.....	396
*18. Bering Monroe, San Bernardino, Calif.....	396
*22. Dan Burr, Piqua, Ohio.....	396
*24. Charles M. Cronk, Wheeling, W. Va.....	396
*58. William McGuire, Park City, Utah.....	389
*60. George E. Lindsay, Burke, Virginia.....	389
*82. Robert Burnes, Park City, Utah.....	377

### Match No. 2

#### INDIVIDUAL SHORT RANGE MATCH (ANY SIGHTS) (107 Entries)

*Conditions:* Same as Match No. 1 except any sights were permitted.

1. W. J. Powers, Tulsa, Oklahoma.....	400
2. George E. Lindsay, Burke, Virginia.....	400

3. Fred Johansen, Joliet, Illinois.....	399
*4. F. Tackley, San Diego, Calif.....	399
5. George E. Widger, Ione, Washington.....	399
6. Frank E. Bryson, So. Jacksonville, Fla.....	399
*7. M. R. M. Gwilliam, Bloomfield, N. J.....	399
*8. Allison Tarr, Verona, Penna.....	398
9. T. K. Lee, Birmingham, Alabama.....	398
*10. H. H. Leeming, Mount Vernon, N. Y.....	398
*12. A. J. Henrich, Queens Village, N. Y.....	398
*13. U. S. Vance, Terrace Park, Ohio.....	398
*17. R. G. Bassett, Carpinteria, Calif.....	398
*19. Jas. S. Seres, Lorain, Ohio.....	398
*23. A. C. Ganda, Morgantown, W. Va.....	397
*26. P. E. Champ, Binghamton, New York.....	397
*27. E. S. Burrell, Philadelphia, Penna.....	397
*32. Fred Kielchowski, Seward, Alaska.....	396
*38. C. P. Gilliland, Seward, Alaska.....	395
*44. J. H. Schultz, Warren, Penna.....	394

### Match No. 3

#### 50-METER METALLIC SIGHTS MATCH (69 Entries)

*Conditions:* Open to all. 40 shots at 50 meters, prone, metallic sights. To the winner a gold filled medal; second, a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

*1. Edward K. Waters, Chicago, Illinois.....	399
2. Capt. T. J. Walker, Ft. Devens, Mass.....	398
3. E. C. Hamley, Jr., Glendale, Calif.....	398
*4. U. S. Vance, Terrace Park, Ohio.....	397
*5. W. O. Boian, Des Moines, Iowa.....	396
6. M. L. Kobler, Monmouth, Illinois.....	395
7. R. B. Keplinger, Valentine, Nebraska.....	395
*8. Carl Petri, Buffalo, New York.....	395
9. F. Tackley, San Diego, Calif.....	395
10. H. E. Potter, Downing, Missouri.....	394
*12. Harry C. Hagedorn, Valley Stream, N. Y.....	393
*16. George E. Lindsay, Burke, Virginia.....	391

### Match No. 4

#### 50-METER ANY SIGHTS MATCH (62 Entries)

*Conditions:* Same as Match No. 3 except any sights were permitted.

1. Bering Monroe, San Bernardino, Calif.....	399
2. Chas. G. Hamby, Atlanta, Georgia.....	399
3. E. O. Bergerson, Tacoma, Wash.....	399
4. A. J. Colombo, St. Paul, Minn.....	398
5. E. K. Smithley, Miami, Okla.....	398
*6. A. J. Henrich, Queens Village, N. Y.....	397
*7. Allison Tarr, Verona, Penna.....	397
8. B. H. Yeoman, Pratt, Kans.....	396
9. A. Rasmussen, Sioux Falls, So. Dak.....	396
10. Frank E. Bryson, So. Jacksonville, Fla.....	396

### Match No. 5

#### 200-YARD METALLIC SIGHTS MATCH (55 Entries)

*Conditions:* Open to all. 20 shots at 200 yards, prone (decimal target), metallic sights. To the winner a gold filled medal; second a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. Lew Bulgrin, Owen, Wis.....	195
2. Mark R. M. Gwilliam, Bloomfield, N. J.....	195
3. Amos Rasmusson, Sioux Falls, So. Dak.....	195
4. Ben Bowles, Reno, Nevada.....	195
5. E. C. Hamley, Glendale, Calif.....	193
6. U. S. Vance, Terrace Park, Ohio.....	192
7. R. B. Keplinger, Valentine, Nebr.....	192
*8. George E. Lindsay, Burke, Va.....	191
9. A. P. Starkjohann, Valentine, Nebr.....	191
10. Delbert Durham, Peoria, Ill.....	191
*12. William Synarski, Amsterdam, N. Y.....	190
*21. George W. Sawyer, Queens Village, N. Y.....	188

### Match No. 6

#### 200-YARD ANY SIGHTS MATCH (58 Entries)

*Conditions:* Same as Match No. 5 except any sights were permitted.

1. T. K. Lee, Birmingham, Ala.....	199
*2. Fred A. Clemens, Nescopeck, Penna.....	197

*3. Mark R. M. Gwilliam, Bloomfield, N. J.....	197
4. Lew Bulgrin, Owen, Wis.....	197
*5. J. Scrimgeour, West Pittston, Penna.....	197
6. Amos Rasmusson, Sioux Falls, So. Dak.....	196
7. Ben Bowles, Reno, Nevada.....	196
8. George F. Ream, Nescopeck, Penna.....	196
9. James J. Keleher, Bishop, Calif.....	196
10. George E. Lindsay, Burke, Va.....	195
*12. George W. Gerlach, Ossining, N. Y.....	195
*19. Rodney J. Reston, Amsterdam, N. Y.....	193

### Match No. 7

#### METALLIC SIGHTS CHAMPIONSHIP (27 Entries)

*Conditions:* Open to all. An aggregate of matches 1-3 and 5. To the winner a gold filled medal; second a silver medal; third to seventh bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. E. C. Hamley, Glendale, Calif.....	988
2. Capt. T. J. Walker, Ft. Devens, Mass.....	986
3. U. S. Vance, Terrace Park, Ohio.....	984
4. Mark R. M. Gwilliam, Bloomfield, N. J.....	981
5. M. L. Kobler, Monmouth, Ill.....	981
6. R. B. Keplinger, Valentine, Nebr.....	980
7. Emory Hawcock, Monmouth, Ill.....	980
*11. George W. Sawyer, Queens Village, N. Y.....	972

### Match No. 8

#### ANY SIGHTS CHAMPIONSHIP (35 Entries)

*Conditions:* Same as Match No. 7 except aggregate is based on scores of matches 2-4 and 6.

1. T. K. Lee, Birmingham, Ala.....	992
2. Mark R. M. Gwilliam, Bloomfield, N. J.....	992
3. Chas. G. Hamby, Atlanta, Ga.....	992
4. Amos Rasmusson, Sioux City, S. Dak.....	990
5. George E. Lindsay, Burke, Va.....	990
6. Lew Bulgrin, Owen, Wis.....	989
*7. Allison Tarr, Verona, Penna.....	989
*20. Ralph Mezger, Ossining, N. Y.....	965
*22. K. C. Nicholson, Niagara Falls, N. Y.....	964

### Match No. 9

#### EAGLE RIFLEMAN TROPHY MATCH (41 Entries)

*Conditions:* Open to outdoor smallbore distinguished expert riflemen only. 20 shots at 50 yards and 20 shots at 100 yards, prone, any sights. To the winner a gold filled medal, second a silver medal; third to seventh, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. T. K. Lee, Birmingham, Ala.....	400
2. S. J. Lanning, Sioux City, Iowa.....	400
3. Lew Bulgrin, Owen, Wis.....	400
4. Barney Pabst, Wallace, Idaho.....	400
5. F. D. West, Des Moines, Iowa.....	400
6. W. O. Boian, Des Moines, Iowa.....	399
*7. E. M. Ludlow, Penn Yan, N. Y.....	399
*9. C. Grollmund, Paterson, N. J.....	399
*13. G. F. Ream, Nescopeck, Pa.....	398

### Match No. 10

#### TYRO SHORT RANGE METALLIC SIGHTS (79 Entries)

*Conditions:* Open to tyros only. 20 shots at 50 yards and 20 shots at 100 yards, metallic sights. To the winner a gold filled medal, second a silver medal, third to tenth bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

*1. Bering Monroe, San Bernardino, Calif.....	400
2. Harold E. Walker, Gardner, Mass.....	396
*3. George K. Klamp, Jr., Saginaw, Mich.....	396
4. Wm. H. Hecker, Shaker Heights, Ohio.....	394
5. H. S. Brubaker, Clarksburg, West Va.....	394
6. John G. Kleis, Holland, Michigan.....	393
7. D. A. Hamilton, Stillwater, Oklahoma.....	393
*8. Delbert Durham, Peoria, Illinois.....	393
*9. Harry Brennan, Chicago, Illinois.....	392
*10. A. J. Ruempler, Yonkers, New York.....	392
*58. W. B. Conitz, New Salem, North Dakota.....	328

Match No. 11  
**TYRO SHORT RANGE ANY SIGHTS**  
(54 Entries)

Conditions: Same as match 10, except any sights were permitted.

*1. Bering Monroe, San Bernardino, Calif.	400
*2. Jay Wright, Newark, New York	400
3. R. Robert Fulton, San Diego, Calif.	398
*4. A. P. Cummings, Schenectady, N. Y.	397
5. P. M. O'Gara, Mason City, Iowa	397
6. Noble Hinckle, Hancock, Maryland	397
7. Ralph Mezger, Ossining, New York	396
8. Earl Pennington, Clinton, Michigan	395
9. P. D. Andrews, Schenectady, New York	395
10. J. C. Keys, Tell City, Indiana	395
*13. Ira V. Barchet, Washington C. H., Ohio	394
*26. M. L. Mower, Olympia, Washington	387

Match No. 12  
**TYRO 50-METER MATCH**

Conditions: Open to tyros only. 40 shots at 50 meters, metallic sights. To the winner a gold filled medal, second a silver medal, third to tenth bronze medals.

1. L. A. Landreville, San Francisco, Calif.	395
2. George D. Beyer, Bridgeport, Nebraska	391
3. Noble Hinckle, Hancock, Maryland	389
4. C. Palmer, Bridgeport, Nebraska	389
5. Mrs. G. H. Holliday, Antioch, Calif.	388
6. H. G. Trommald, Portland, Oregon	388
7. Delbert Durham, Peoria, Illinois	385

Match No. 13  
**LIFE MEMBERS SHORT RANGE MATCH**  
(51 Entries)

Conditions: Open to N. R. A. life members only. 20 shots at 50 yards and 20 shots at 100 yards, prone, any sights. To the winner a gold filled medal; second a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

*1. Wm. T. Bryan, Roslyn, Penna.	400
*2. C. H. Vincent, Utica, Mich.	400
3. G. E. Widger, Ione, Wash.	400
4. T. K. Lee, Birmingham, Ala.	399
5. Lew Bulgria, Owen, Wis.	399
*6. Pat Donohue, Girard, Ohio	399
7. A. J. Henrich, Queens Village, L. I., N. Y.	398
8. A. C. Berg, Lorain, Ohio	398
9. C. P. Quidas, Morgantown, W. Va.	398
10. W. H. Oakley, Jr., Hertford, N. C.	398
*11. H. L. Hunsley, Edinburgh, Ill.	397
*12. P. E. Champ, Binghamton, N. Y.	397

Match No. 14  
**LIFE MEMBERS 200-YARD MATCH**  
(36 Entries)

Conditions: Open to N. R. A. life members only. 20 shots at 200 yards, prone (decimal targets), any sights. To the winner a gold filled medal, second a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. T. K. Lee, Birmingham, Ala.	198
2. Chas. R. Fattz, Scranton, Penna.	198
3. H. Scott Eagleson, Hamilton, Ohio	197
4. George E. Widger, Ione, Wash.	197
5. J. B. Hawkins, Clarksburg, W. Va.	197
*6. P. D. Andrews, Schenectady, N. Y.	195
7. Karl A. Edburgh, Berwick, Penna.	194

Match No. 15  
**JUNIOR 50-FOOT MATCH**  
(278 Entries)

Conditions: Open to N. R. A. junior members, and members of affiliated junior clubs. 40 shots at 50 feet, prone, metallic sights. To the winner a 10-K gold medal; second a silver medal; third to tenth bronze medals.

1. Hilary Brown, Louisville, Ky.	400
2. Arthur Jackson, Brooklyn, N. Y.	399
3. Verne Koehler, Tacoma, Wash.	399
4. Pat Pantano, New Rochelle, N. Y.	399

5. Maurice Mackay, Valley Stream, N. Y.	399
6. Roy Funk, Tacoma, Wash.	399
7. Vernon Miller, Fort Wayne, Ind.	399
8. C. Vander Bush, Jr., Paterson, N. J.	398
9. J. L. Polk, Jr., Troy, N. Y.	398
10. Frederick Mills, Brooklyn, N. Y.	398

Match No. 16  
**JUNIOR 50-YARD MATCH**  
(71 Entries)

Conditions: Open to N. R. A. junior members and members of affiliated junior clubs only. 20 shots at 50 yards, prone, metallic sights. To the winner a 10-K gold medal, second a silver medal; third to tenth, bronze medals.

1. James W. Cooper, Lawrence, Mass.	199
2. Ralph Mezger, Ossining, N. Y.	199
3. Henry P. Dunbar, Sandwich, Mass.	199
4. August Westergaard, Whiting, Iowa	198
5. C. Vander Bush, Jr., Paterson, N. J.	198
6. Bill Swanberg, Quincy, Ill.	198
7. John Jungermann, Louisville, Ky.	197
8. Bill Leedy, Decatur, Ill.	197
9. Hilary Brown, Louisville, Ky.	197
10. Roger Hughes, Youngstown, Ohio	197

Match No. 21  
**200-YARD PRONE MATCH**  
(107 Entries)

Conditions: Open to all. Any center fire rifle. 20 shots, s. f. at 200 yards, prone (decimal targets). To the winner a 10-K gold medal; second a silver medal; third to tenth bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. C. H. Vincent, Utica, Mich.	199-9X
2. Arnold J. Neys, Eau Claire, Wis.	197-8X
3. Oscar Anderson, Owen, Wis.	197-7X
*4. T. B. Kellum, Austin, Tex.	196-7X
*5. E. S. Burrell, Philadelphia, Pa.	196-6X
6. Harry L. Lawell, Bridgeport, Pa.	195-7X
7. Dewey H. Bear, Centerville, Iowa	194-8X
8. Chas. G. Hamby, Atlanta, Ga.	194-4X
9. Robert S. Brodhead, Philadelphia, Pa.	194-3X
10. Karl M. Foster, Great Barrington, Mass.	193-7X
*11. William Synarski, Amsterdam, N. Y.	193-7X
*12. Merrill M. Anderson, West Allis, Wis.	193-7X
*13. Arnold J. Hanscom, San Carlos, Calif.	192
*14. Ben Bowles, Reno, Nev.	191
*19. Harold C. Nelson, Brooklyn, N. Y.	190
*36. Ray T. Bayless, Shaker Heights, Ohio	184
*58. Henry E. Cash, Tell City, Ind.	168
*69. Carl Carpenter, Park City, Utah	
Fired on Target "A"	96
*70. Byron Flanders, Park City, Utah	
Fired on Target "A"	94

Match No. 22  
**200-YARD SITTING MATCH**  
(41 Entries)

Conditions: Open to all. Any center fire rifle. 20 shots, slow fire at 200 yards, sitting, metallic sights (decimal target). To the winner, a gold filled medal; second a silver medal; third to tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

*1. Arnold J. Hanscom, San Carlos, Calif.	193
*2. William Synarski, Amsterdam, N. Y.	192
*3. Ben Bowles, Reno, Nev.	
Last shot 10	188-2X
4. C. H. Vincent, Utica, Mich.	
Last shot 8	188-2X
5. R. E. Lawyer, Binghamton, N. Y.	187
6. Warren F. Groves, Turlock, Calif.	184-1X
7. C. F. Sandstrom, Centerville, Iowa	184-1X
8. Lewis N. Phillips, Los Angeles, Calif.	184
9. Alfred C. Berg, Vallejo, Calif.	183
10. Frederic C. Held, Bridgeport, Conn.	182-3X

Match No. 23  
**200-YARD STANDING MATCH**  
(47 Entries)

Conditions: Open to all. Any center fire rifle. 20 shots, slow fire at 200 yards, army standing (decimal target), metallic sights. To the winner a gold filled medal; second a silver medal; third to

tenth, bronze medals. Bronze "State" medals as indicated by (\*) opposite names.

1. H. G. Trommald, Portland, Ore.	186
*2. Franklin D. West, Des Moines, Iowa	182
3. C. F. Sandstrom, Centerville, Iowa	173
4. Dewey H. Bear, Centerville, Iowa	173
5. James E. Bostic, Bend, Ore.	167
6. J. W. Baker, Huntsville, Tenn.	167
7. Emory Hawcock, Monmouth, Ill.	162
8. Ray T. Bayless, Shaker Heights, Ohio	160
9. Dewey C. Miller, Enterprise, Ore.	156
10. George D. Goodhue, Claremont, N. H.	155
*15. Lewis N. Phillips, Los Angeles, Calif.	143
*26. Ben Bowles, Reno, Nev.	123

**FIVE NEW OFFICIAL RECORDS**

**F**IVE new record scores, four made with handguns and the fifth a women's division small bore rifle record, recently have been officially recognized by the National Rifle Association.

Of the four new pistol records three were established by the Los Angeles police at Los Angeles on July 27, 1936. On that occasion, the L. A. police, shooting in a 5-man team match over the so called "short" police course (10 shots slow, 10 timed and 10 rapid, all at 25 yards) scored 1408 X 1500. This total is 3 points more than the previous record, made by the New York City Police at Camp Ritchie, Md., on July 4, 1936.

Second of the pistol records made by Los Angeles police at Los Angeles on the same day (July 27, 1936) was in a 5-man team event National Match Course. In this event the Los Angeles police team totaled 1396 X 1500, beating their own record of 1389, made at Camp Lewis in 1934.

The third Los Angeles police record, an individual record score, was made by J. J. Engbrecht, ace member of the Los Angeles police pistol team, whose score of 392 in the above mentioned 5-man team event constitutes a new individual record for the National Match Course with .38 or larger hand guns.

Fourth on the list of recently accepted pistol records is a 4-man team score of 1111 X 1200, over the National Match Course made by the U. S. Immigration Border Patrol Team at San Antonio on July 5, 1936. This is a new record, the first recognized over the National Match 4-man team course. (The present record for 4-man teams over the "short" police course of 3 stages, all at 25 yards is 1142 X 1200 made by Los Angeles police at Camp Lewis, Washington, in 1933).

In the women's division small bore rifle class, the score of 400 X 400 (12X at 100 yds., 14X at 50 yds.) made by Mrs. Dorothea Kelly of Akron over the Dewar Course at Indiana, Pa., July 10, constitutes a new official record for women. This replaces the previous record of 397, made by Mrs. E. A. Holcomb of Portsmouth in the U. S. International Railwaysmen Match at Camp Perry in 1935.

## COMING EVENTS

### California

**Oct. 18:** 2nd Annual California Indoor State Championship, sponsored by the Oakland Rifle Club, Oakland (Calif.). 100 yards small bore indoors, The Metropolitan of the West Coast. At the Oakland Exposition Bldg., 10th and Fallon Streets, Oakland. For programs write Mr. Joseph Ternes, Sec'y., 838 19th Street, Oakland, Calif.

### Connecticut

**\*October 10-11:** Fifth Annual North Atlantic Police and Civilian Championship Revolver Matches sponsored by the Hartford Revolver & Rifle Club at the Hartford Gun Club Range in Farmington, Conn. For programs address J. P. Leonard, Avon, Conn., or H. K. Morris, 29 Stanley St., East Hartford, Conn.

### Delaware

**Oct. 1-4:** Tidewater R & P Championships including the Delaware State Championships with .22 rifle and handguns, sponsored by Marksmans' and Wilmington R & P Clubs. At Farmhurst Range near Wilmington. Programs now ready.

### District of Columbia

**October 9-10-11:** (Tentative dates). Middle Atlantic Fall Small Bore Tournament, conducted by National Capital Rifle Club of Washington, D. C. At Camp Simms, D. C. Program modeled after Indiana (Pa.) Shoot. Many short range events with no 200 yard shooting; no team matches. For programs address T. G. Arnold, Secretary, 7 McCreary St., Hyattsville, Md.

### Florida

**October:** First Annual Florida West Coast Small-bore Matches, sanctioned by the Florida State Rifle Association. At Clearwater, about the middle of October. Date to be announced in the October RIFLEMAN. Matches include the 50 meter individual, Dewar, long range any sights and aggregate trophy, medals and cash. For information write L. W. Abrams, 705 Prospect Ave., Clearwater, Florida.

### Illinois

**September 6:** 50 meters match at Ft. Sheridan.  
**September 13:** State revolver championship at Ft. Sheridan.

**September 20:** Small bore state championship at Ft. Sheridan. Ten shots each at 50, 100 and 200 yards, any sights.

**September 27:** Fall small bore matches, Campaign. For details address: Clayton Hunt, 402 W. University Ave., Urbana, Ill.

**September 27:** Bliss trophy match—probably at Camp Logan.

**October 4—Second Annual Paddy Wagon Rifle Club matches.** At the club's range located one mile west of Paxton, Ill., on State Route #9. Schedule includes team and individual Dewar, 50-meters rapid fire and 100-yds. any sight events. Firing starts promptly at 8 A. M. For information address Andrew C. Rasmussen, Gibson City, Illinois.

### Indiana

**Sept. 24-25:** Muzzle Loading Rifle Matches conducted by the National Muzzle Loading Association in connection with the Fox Howard Trails. At Dillsboro. For details write E. M. Farris, Sec'y, Portsmouth, Ohio.

**Oct. 22-24:** National Muzzle Loading Matches conducted by the National Muzzle Loading Rifle Association. At Rising Sun. For details write E. M. Farris, Sec'y, Portsmouth, Ohio.

### Louisiana

**Sept. 20:** First Inter-Parish Small Bore Match, conducted by Pelican Rifle Club of Louisiana, Inc.

At Shrewsbury Rifle Range. Matches open to any resident of Orleans, St. Bernard, Jefferson, St. Charles or St. Mary Parishes. For details address, Pelican Rifle Club of La., Inc., 209 Harrison Avenue, New Orleans, La.

### Massachusetts

**Sept. 13:** 8th Annual Outdoor Smallbore Match. At G. E. Athletic Field, Dalton Road, Pittsfield, Mass. Open to all. For programs address Arthur R. Peck, Sec'y., Pittsfield G. E. Athletic Association, 100 Woodlawn Avenue, Pittsfield, Mass.

**Sept. 26-27:** Bayside R & P Ass'n .30 Caliber Matches. At Woburn. For programs address R. A. Vanamburg, Sec'y., 41 Whitney Road, Medford, Mass.

### Minnesota

**Sept. 19-20:** Minnesota State Pistol Matches. At Ft. Snelling. For programs address Geo. J. Kuch, Sec'y, Robbinsdale, Minn.

### Missouri

**Sept. 26-27:** Sixth Annual Southwest Missouri Outdoor Shooting Tournament, including small bore, .30 caliber and handgun events, sponsored by The Monett Rifle & Revolver Club, Inc., and endorsed by the Missouri State Rifle & Pistol Association. At Monett. Range is located 2 miles west of the city on U. S. Highway 60. For programs address James J. Randall, Sec'y, Monett, Mo.

### New York

**September 20—Long Island Rifle & Pistol Association's** third annual individual championships. At the Roslyn Rifle Club Range. Also team events on the 27th. For programs address Harry C. Hagedorn, 49 5th Street, Valley Stream, L. I., N. Y.

### Ohio

**August 30-September 12:** National Rifle Ass'n Rifle and Pistol Matches concluding with the National Rifle and Pistol Matches, conducted by the War Department. At Camp Perry.

**Sept. 7:** The Old Trails Muzzle Loading Rifle Club Match. At Cambridge. Matches will be at 60 and 100 yards. For programs write to H. P. Bell, R. D. No. 6, Byesville, Ohio.

### Oklahoma

**October 10-11:** State Small Bore and Pistol Tournament, sponsored by the Oklahoma Rifle Association. At Okmulgee. For programs address Captain Elmer C. Croom, Secretary, Okmulgee, Oklahoma.

### Pennsylvania

**Sept. 7:** 2nd Annual Labor Day Small Bore Shoot, at Harmony, Pa. Sponsored by the Connoquenessing Valley Gun and Rod Club of Zelenople, Pa. For information and programs address Rev. Guy M. Wilson, Sec'y., Spring-Division Sts., Zelenople, Penna.

### Texas

**Sept. 26-27:** Tenth Annual Southwestern Pistol and Small Bore Tournament conducted by the Trinity Rifle Club. At Dallas. See announcement elsewhere in this issue. For programs, address J. M. Harris, 919 N. Mt. Clair St., Dallas, Texas.

### Wisconsin

**Sept. 20:** First annual small-bore tournament conducted by the Washburn (Wis.) Rifle Club. At Washburn. For programs address Nels Myhre, Secretary, Washburn, Wis.

**Sept. 27:** Small Bore Fall Championship. At County Line Range.

### Guns Reported Stolen

On July 30th one Colts Super Automatic, .38 caliber, serial No. 11555, with snap-off holster, stolen from my car at Arkansas City, Kansas. Report any information to Robert R. Cox, c/o Kanotex Refining Co., Arkansas City, Kans.

## CLUB NOTES

In the Club Team International Match at 50 Meters, conducted by the Society of Miniature Rifle Clubs and open to 5-man teams from any rifle club in the world, Border Legion Club of Minnesota totaled 1987 X 2000 to place first, closely followed by two Estonia clubs. Two more U. S. A. teams (the Zeppelin Club of Akron, O., and Roslyn (N. Y.) Rifle Club) finished fourth and fifth with scores of 1981 each. 270 club teams from 22 countries shot the match.

A bulletin from Lt. Col. Basil Middleton containing results of the Indiana National Guard and Indiana State Rifle Association Matches received as we go to press indicates the dual tournament was a real success with about 100 entries in most of the .30 caliber rifle events.

The Association of New Jersey Rifle & Pistol Clubs had a very successful shoot Sunday, August 2nd. Although it was quite warm 72 entries were made. Cooperation of the members of nearby clubs was excellent. National Champion Turk Samso was the official scorer and Charlie Walters of Perth Amboy Rifle Club, Chief Statistician. Six medals were given for each event. There were 50 and 100 yard iron sight matches and an aggregate Dewar match. Also 50 and 100-yard scope match with an aggregate match in honor of Colonel Margin who has done so much for New Jersey shooters.

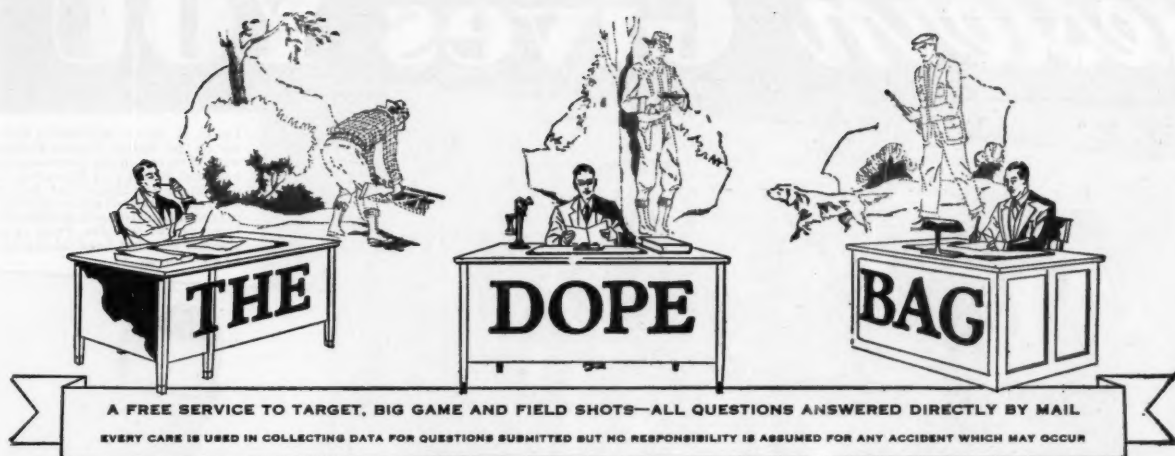
In the fourth meeting of the Southern Oregon-Northern California Small Bore League held at Medford, Oregon, July 26, Medford "A" team took the match with a 6 point lead over Yreka. Some claim that Dodge, a former Medford resident, threw the match to Medford by purposely loosening the front mount of his scope with the result that he shot a fine 183 at 100 yards. Other scorers were: Weed, 1946; Roseburg, 1937; Medford "B", 1928, and Klamath Falls, 1911.

The first revolver match, sponsored by the Southampton Police Dept. Pistol Club under the roles of the Nassau-Suffolk Police Revolver Association was fired on July 21 at the new revolver range of the Southampton Police Department. Eighteen Nassau and Suffolk County Police Departments had 5 men teams entered in the match. There were over 150 men shooting. It was one of the finest and most successful matches, conducted by the Association, and full credit is due the officers and personnel of the Southampton Police Department.

On June 6th and 7th, the Seattle Rifle and Pistol Association conducted the Washington State Small Bore Matches at their outdoor range at Richmond Highlands. Despite a heavy downpour of rain the shoot was well attended, with shooters coming from different parts of the state and Oregon. Among the many noted small bore shooters who attended were L. E. Wilson, Cashmere; Walter Lutz, Spokane; Roy Funk, Tacoma; Bob Foster and George Perry, Bremerton; Neil Baldwin, Portland, Oregon; Alice Bill, Roy Meister, Chet and Edna Secord, and many other well-known Seattle shooters.

On August 2 the Frontier Gun Club of Lancaster, N. Y., held the largest shoot ever held in Western New York. Delegations of shooters were common from many distant points. The meet was attended by 74 registered shooters and an estimated crowd of 200 was on the grounds.

On Sunday, July 19 the Legion Pistol & Rifle Club of Chillicothe held its 8th Annual Silver Cup Pistol Matches and Ohio Valley Pistol Championship Match. A ten-man range was kept busy all day with the National Match Courses while an auxiliary range took card of the Slow Fire. There were forty competitors registered and a big time was had by all and mostly by Jos. H. Lamping the new Ohio Valley Pistol Champion.



Conducted by F. C. Ness

## The .300 Savage Model 99-T

**T**HE Savage 99 is a light, handy, hammerless, lever-action repeating rifle designed for shooting American big game. It has a solid top and it is a side ejector, which adapts it admirably for the efficient employment of telescope sights, because the instrument can be placed low, or right down on top of the receiver where it belongs. The solid-frame styles of M-99 Savage rifles are better adapted for this purpose and of these the popular Model 99-R-S and the Model 99-T are best.

The Model 99-T is practically a plain, slingless and peepless version of the completely equipped Model 99-R-S. The 99-T has a 22-inch barrel and weighs 7½ pounds. It has a 13-inch, modified shotgun-type buttstock and a buttplate of cross-grooved steel, the latter being slightly curved or dished in at the middle. The forestock extends 10 inches ahead of the receiver, with its tip about 17 inches forward of the trigger. Both forestock and pistol grip are well checkered. The pitch down at the muzzle is 1½ inches. It would be fully 2 inches with a 24-inch barrel. All these features and the fine balance and feel make this arm fast and accurate in handling and well adapted for quick shots in the brush.

The sights are ordinary open sights. The front sight is a white metal bead dovetailed into an integral raised lug on the barrel near the muzzle. The sporting type rear sight has a step elevator and it is held in a barrel slot about 3 inches forward of the receiver. It was designed for quick aim with a wide shallow concave and a white middle mark. We knocked it out and fitted a Weaver 3-29S scope sight in a V-type mount, attached to the barrel by 3 screws. This was fairly

satisfactory for aiming our test shots, but not practical for continued use, and it eventually came off.

The caliber of this rifle is .30, and the cartridge is the .300 Savage. The factory ballistics are as follows:

### 150-grain load

Muzzle velocity	2700 f.-s.
Velocity at 100 yds.	2465 f.-s.
Muzzle energy	2426 ft.-lbs.
Energy at 100 yds.	2034 ft.-lbs.
200-yd. trajectory (Midway)	2.9 inches

### 180-grain load

Muzzle velocity	2400 f.-s.
Velocity at 100 yds.	2160 f.-s.
Muzzle energy	2300 ft.-lbs.
Energy at 100 yds.	1863 ft.-lbs.
200-yd. trajectory (Midway)	3.6 inches

The ballistics of the 150-grain bullet equal those of the old Service load in .30-'06 caliber. Of late there has been much revived interest in this rifle and cartridge, aroused by the advent of the new .348 Winchester cartridge in the M-71 lever-action. The .348 Super Speed is more powerful at short range, but the better-pointed .30-caliber bullet of the .300 Savage gives it an advantage at ranges between 175 and 300 yards. With the individual samples tried we also got appreciably better results on the target when using the .300 Savage.

Even, at the beginning, with the first temporary scope sight our 50-yard zeroing group had all its shots cut a 1½-inch circle with an inside group diameter of 1¼ inches; the size was 1.55 inches, measured between centers. At 100 yards this outfit gave consecutive 5-shot groups of 3.15, 3.15 and 3.02 inches, center-to-center. This scope, however, was mounted too far from the eye and the barrel screws

were not reliable. Dissatisfaction soon forced us to get a proper outfit from the maker.

This was the new Weaver S-7 bracket mount, attached by two large coin-slotted screws to the flat left side of the Savage 99 receiver. It holds the scope over center at the proper distance from the eye and about ⅛ inch above the receiver. In it we used the 29-S Weaver scope with internal ½-minute-click adjustments. It makes a very economical though practical outfit at the cost of but a dozen dollars. It serves well for target shooting and pest shooting. With a flat-top aiming post it would also serve for localized hunting of such game as deer and bear, because this Weaver outfit will stand much more abuse than the best target-type scopes commonly used for varmint shooting. It is very probably the only sight we shall ever need on this particular rifle. See the accompanying cut.

With this new outfit properly fitted we obtained also better groups on the target and a constant zero. The 29-S Weaver scope is 1.10 inches above the bore axis as mounted, and the drop from the line of sight is 2 inches to the comb. We used the Savage 150-grain load exclusively. At 100 yards our 10-shot group measured 2.28 inches. At 200 yards our 10 shots made a group of 4.60 inches, center-to-center. In our shooting of this combination of rifle, sight and cartridge, we noted with interest that our groups increased uniformly in even ratio with the distance or along the lines of a true cone.

The rifle handled well in all positions. We obtained a common zero for all three positions. At 50 yards, 5 shots from prone rest went into 1.32 inches. Another 5 from sitting and from standing landed in the same place. The total group of 15 shots measured 3.65 inches on account of

# Western Gives YOU The



Dr. G. R. Price, Monrovia, Cal. winner of the Police Course Individual, with Western, in the Southwest International Pistol and Revolver Championships, San Diego, Cal. July 3-4-5, with the excellent score of 294! Also placed second in the Individual Timed Fire. Score: 99! Dr. Price is a new shooter who has been taking the field to a cleaning.



Above, the U. S. Immigration Border Patrol Team, of El Paso, Texas, winner of the Texas Four Man Team Championship at the State Pistol Matches at San Antonio with a score of 1111 x 1200. Left to right, A. M. Tenney—Alternate, L. D. Knesek, Chas. Askins, Jr. (also winner of the Texas Individual State Championship), Robert P. Jackson and M.T. Box.

## Border Patrol Four-Man Pistol Team Wins In Texas

THE U. S. Immigration Border Patrol Team from El Paso, Texas, headquarters, again found the winning margin of accuracy in Western ammunition when they scored 1111 x 1200 in winning the Four-Man Team Championship at the Texas State Pistol Matches, San Antonio, Texas, July 4-5.

In making this high score for a four-man team over the National Pistol course, they used Western .38 Special Mid-Range loads at 25 yards and Western .38 Special Full-Charge loads in the 50-yard stage. Scores: Capt. Chas. Askins, Jr.—284, Robert P. Jackson—281, L. D. Knesek—278, M. T. Box—268, for an average per man of 278!

Capt. Askins also won the Texas Individual State Championship, score—1125—the Grand Aggregate, score—2195—and the Texas State .45 Auto Championship over the Camp Perry Police Course with 285, nine points better than his nearest competitor. L. D. Knesek placed third in the .45 auto match, also using Western .45 Special Match cartridges. R. P. Jackson won the Texas Rapid Fire Championship with Western .38 Special Mid-Range loads!

*As usual the high ranking rifle teams at Camp Perry will be shooting and winning with Western Match ammunition for the standard .30 caliber rifles and for the H & H Magnum.*

## All 8 Matches in West Texas Pistol Championships Won With Western!

What a record! Every match won with Western! Of the 31 medals awarded, 29 went to Western shooters, who placed 1-2-3 in every match but one! The six high men in one of the events shot Western!



Mrs. H. W. Semmelmeier, Beverly Hills, Cal. Winner of the Ladies Championship, .22 Caliber, in the Southwest International at San Diego. Score: 199. She also won the same event in the California State Championships, with Western, making an average of 99 x 100 for her last four strings at 25 yards slow fire.

**Western**  
WORLD'S CHAMPION

# The Winning Margin!

Mr. Henry J. "Hank" Adams, Jr., San Diego County Sheriffs Force. He shot Western to win the .38 and .45 Cal. Individual Matches, National Course, in the Southwest International, with scores of 285 and 275, respectively. Also won the Rapid Fire Individual Aggregate, score: 283, and the Individual Rapid Fire Championship, score: 98!



Above, the Delaware and Hudson team—the Number 1, 5-man team of the Delaware and Hudson Railroad Police. Left to right, Harry B. Russ, Bernard R. Masko, Ralph Adriance, James R. Herron and James H. Overbaugh. Messrs. Russ, Adriance, Herron and Overbaugh composed the winning 4-man team in the State Team Match, score 1116 x 1200.



Sgt. E. G. Fleming of the San Diego, California Police Department. Sgt. Fleming's excellent score of 187—95-92—placed him at the top of the list in the .22 Cal. Slow Fire Individual Match at the Southwest International Pistol and Revolver Championships held at San Diego last July 3-4-5.

## Western Shooters Won 16 of 23 Pistol Matches at Ritchie!

THE pistol matches at the big annual Eastern Small-Bore Tournament, Camp Ritchie, Maryland, were practically a CLEAN SWEEP for contestants who shot Western. 16 out of 23 matches were won with Western—with Western shooters in second place or both second and third in the other 7 matches!

As a team and individually, members of the Delaware & Hudson Police Pistol Team came through with some great shooting. D & H teams won the .45 Cal. Auto or Revolver Match, score: 1088—the .38 Cal. Four-Man State Team Match, score: 1116—second in the Police Team Match, score: 1399, and second in the Civilian Slow Fire Team Match, score: 703.

J. H. Overbaugh's overwhelming win of the Grand Aggregate with a score of 1189 was an outstanding achievement. He won five individual matches and placed second in four others.

In piling up the amazing score of 1116 x 1200 in the four-man team match, the D & H marksmen had the following individual scores: J. R. Herron—284, H. B. Russ—284, J. H. Overbaugh—278, R. L. Adriance—270—an average of 279 points per man!

## 6 Out of 9 Individual Matches in Southwest International Won with Western!

The four Californians pictured here won 5 of the 9 individual matches in the Southwest International Pistol and Revolver Championships at San Diego, last July. To make it 6 out of 9 Mr. Norman R. Adair, Yuma, Arizona, won the .22 Cal. Individual, National Course, with a score of 286, shooting Western SUPER-MATCH. Mr. Adair had previously cleaned up with Western at the Arizona State Championships in which he won four matches, placed second in one and third in two others. . . Why not shoot Western yourself and get the advantage of its winning margin of accuracy?

Western Cartridge Company, Dept. I-25, East Alton, Illinois

Visit Western Headquarters at Camp Perry! Western representatives on duty at the grounds will gladly assist you in selecting your ammunition.

**Western**  
AMMUNITION



**Our .30-40 Krag Carbine Fitted With Weaver 29-S Scope Sight (S-Type Mount) and Myrtle Wood Stock by D. M. Mosher, Salem, Oregon. The Small Cut Cannot Do Justice to the Fine Figure and Shading of This Intricately Marked Wood**

a couple of wide shots, but the centers of impact varied only one-fourth of an inch. According to our firing data the bullet drops less than a foot from the muzzle to 200 yards and requires 5.5 minutes angle of elevation at that range.

The load is a good one for deer and bear, sheep and caribou. It will serve for any American game but it is not powerful enough to be classed ideal on the larger species of bear, moose and elk. The combination is not accurate enough to be ideal for varmint shooting. Reloaders will find it is not ideal because cases tend to stretch when fired in this action. It is a very handy, light-weight and powerful rifle with an ideal action for efficient employment of wide-field, hunting scope-sights. The lever action will appeal to south paws. It is a bit less convenient than the bolt-action to load. The function was smooth and reliable with some stiffness appreciable in the final closing movement. The pull, under 4 pounds, was clean. The recoil was moderate.

#### GREASE WADS RAISE PRESSURES

**I**N THE Dope Bag I have argued that adding a solid to a maximum load restricts powder room and increases the density of the load and resultant pressures. Among others who disagreed with me was one wad maker who contended his wads did not increase pressures. I believed his wad probably gave so little added pressure, or only up to  $2\frac{1}{2}$  tons, that he failed to notice it. I was surprised, therefore, when a recent test showed his wads increased pressures an average of 4 long-tons over standard.

At Camp Ritchie, George (John G.) Schnerring agreed with me and told me he had tested some bullet-base wads of Ideal lubricant in his .22-4000 loads and got an increase of 6,000 pounds pressure. Accordingly, I sent him four types of graphite wads in three different makes. His report of July 17 indicates that all grease wads increase pressures appreciably (some of them to a startling degree) and

that the ingredients, formula or make-up of the wads affects pressures as much (or more) as does the thickness of the wad.

His pressure figures may not be absolute or true for other pressure guns, and readings for the same loads might differ when taken in other laboratories. However, Mr. Schnerring had charge of the Frankford Arsenal proof house for about a generation and is scientifically qualified and motivated in his ballistics work, accurate in his methods and exacting in his experiments. Also his tests were uniform and confined to one load and the same set of equipment so that his comparisons can be taken as dependably indicative. His complete report follows:

#### Pressure Tests with Graphite

"Comparative pressures of five lots of .22-4000 Sedgley cartridges were obtained using various lubricating wads seated on the base of the bullets. Also the standard cartridge was fired without the wads. All five lots of ammunition had weighed charges (to one tenth of a grain) of No. 3031 powder, and the Sisk, 55-grain, soft-point, super-speed bullets. A standard government-type pressure gun with a 24-inch Winchester barrel was used. The barrel was fouled with a warming shot before the record shots were taken.

"A charge of 39 grains was used as this charge approximates the charge loaded in the .220 Swift cartridge. However, the air space with this charge is greater in the .22-4000 than in the .220 on account of the larger diameter of the .22-4000 case, which holds about 9% more powder.

"All the wads in the four lots were seated at the same time after all charges had been weighed; firing commenced one hour after. The lots were alternated, beginning with No. 1, which was the standard or normal load. One shot was fired from lot No. 1, then one from No. 2, etc., until five of each had been fired. This was done to give each lot of

ammunition the same gun condition as nearly as possible.

"The standard load (39-grs.) had in previous tests given 49,000 lbs. in this same gauge. The increased pressure in today's firing may have been due to temperature, as the ammunition had a temperature of 87° F. However, 51,000 lbs. is not far from the correct pressure with this load in a new rifle.

"It will be noticed that the pressure with the Smith wads, which measured .052", were higher than the Ipcos heavy wad which measured .064". This may be due to the inherent characteristics or composition of the Smith wads, rather than the difference in the air space from different thickness in wad. The results are tabulated for convenient comparisons:

Lot No. 1	
Standard cartridge	
Air space .59	
1.	51,566 lbs.
2.	54,350 "
3.	54,230 "
4.	49,566 "
5.	48,900 "
Mean 51,726 lbs.	

Lot No. 2		Lot No. 3	
Ipcos wads .064"		Ipcos wads .033"	
Air space .526		Air space .557	
1.	68,750 lbs.		54,200 lbs.
2.	63,500 "		63,950 "
3.	56,650 "		52,000 "
4.	66,600 "		56,850 "
5.	52,700 "		56,950 "
Mean 61,640 lbs.		Mean 56,790 lbs.	
Increase 9,914 lbs.		Increase 5,064 lbs.	

Lot No. 4		Lot No. 5	
Smith wads .052"		Sisk wads .043"	
Air space .538		Air space .547	
1.	61,800 lbs.		62,350 lbs.
2.	66,500 "		60,700 "
3.	65,850 "		62,150 "
4.	65,250 "		58,600 "
5.	61,000 "		61,250 "
Mean 64,040 lbs.		Mean 61,010 lbs.	
Increase 12,354 lbs.		Increase 9,284 lbs.	

"The writer had tried a graphite wad several months ago, and found that the pressures were 5600 lbs. above normal, with an individual pressure going over 60,000 lbs. I would suggest that the maximum powder charge be reduced at least two grains when lubricating wads are to be used."—John G. Schnerring.

#### Graphite and Erosion

Sometimes I am inclined to think Japan wax or beeswax wads are practically as effective as graphite wads in controlling



**The Model 99-T Savage Rifle Fitted With the Weaver 29-S Scope in Weaver S-7 Bracket Mount; a Twelve-Dollar Scope Sight. Satisfactory for Varmint, Small-Game and Target Shooting, it Would Also Serve (With Flat-Top Aiming Post) for Local Big Game Shooting. It Is Not Rugged Enough for Distant Big Game Trips, Far From Home**

bore erosion. The advantage obtained from the graphite is coverage of the bore surface with a non-frictional protective coat which fills the tiny tool marks and so-called "pores" of polished steel. On the other hand, graphite is noncompressible and has somewhat of a "lapping" action against the steel. This truth makes it imperative to use the very finest form (or molecular division) available, which is colloidal graphite.

Another virtue of graphite is its resistance to high temperatures, which probably directly led to its use in rifle cartridges and in smokeless powder, such as Pyro D.G., in which the "G" means graphite. Herein lies a fault, because graphite is nearly pure carbon and when incandescent under the high temperatures of cartridge combustion it becomes very hard. We might say that a sand-blasting effect results from its use in the rifle bore; but much worse, because here we have the diamond-hard crystals of incandescent graphite blasting the heat-softened surface of the barrel at ultra-high velocities. The important difference is the relative size of the gouging particles, those of graphite being infinitely smaller, which again recommends the finest possible form, or colloidal graphite. The other difference of protective coating, which is a function of graphite lubricants, has already been mentioned in the first paragraph. It is possible that this protective function is sufficient to nullify most of the adverse effects and thus leave a net gain.

We know that graphite wads preserve and appreciably extend the bore life for fine accuracy, but only a long series of costly erosion tests would correctly credit the wax and grease or the graphite content of the anti-erosion wad. These disturbing questions develop the hope that the War Department will become sufficiently interested in graphite to conduct some such erosion tests to determine the relative effectiveness of wax wads and of graphite wads.

### THE INTRIGUING .220 SWIFT

THE .220 Swift from the first has been considered a varmint and medium-game rifle on account of its flat trajectory, its deadliness even at 300 yards, its small, light, ricochetless bullet and its fascinating initial speed of over 4000 foot seconds at the muzzle. Now it is being seriously considered in some quarters as a target rifle as well. As one example, let me point to the 300-yard Sellers match on a form of the 200-yard decimal target, fired July 5, 1936. In that 20-shot match

T. K. Lee of Birmingham, Alabama, took second place with his .220 Swift.

It was too hot for comfortable shooting but there was only an 8-mile wind blowing when Lee was on the line. The .220 Swift interested the spectators because its bullet (patently faster than the competing 30-caliber bullets) kicked up dust behind the 300-yard target at the instant the rifle fired. Lee said the .220 Swift barrel heats more quickly and gets hotter than any rifle he ever shot. He also stated he has definitely adopted the .220 Swift as his choice for combined vermin and target shooting.

In the match, Lee, who had never sighted in at 300 yards with the .220 Swift, started off with a 9 followed by an 8 and another 9. After that he dropped another 8 and three more 9s, his other 13 shots being well inside the 10-ring with 11 Xs. Remember this was on a sub-size target with 2-inch X-ring, 4-inch 10-ring and 6-inch 9-ring at 300 yards. As I measure it Mr. Lee's group is less than 5.5 inches (all horizontal) with a vertical of about 2.65 inches. His group is good enough to raise some question in the minds of some readers, so I will back it up by relating some of our experiences with this standard M-54 Winchester in .220 Swift caliber.

I understand T. K. Lee used W.R.A. factory ammunition. We used Western factory ammunition and the Malcolm No. 1, 6X scope in Lyman 5-A mounts. At 600 yards I had one group with all but one shot in 7 inches. At my first chance at a 400-yard woodchuck I raised only 4 clicks, leaned over the car hood and put my first bullet just under the chuck's chin. My next shot held about an inch higher hit his head and anchored him. The range was great enough apparently to dissipate the power of the bullet down to that of the .22 Hornet at 200 yards, which leads me to believe it was well over 400 yards. On that day I had been making repeated misses at shorter ranges on account of over-shooting with the unzeroed .220 Swift. On the 100-yard target our best group with this 48-grain Western load was 1.06 inches. However, at 200 yards I had a group as small as 1.77 inches and Barr followed with a 200-yard group of 1.57 inches.

### .220 Swift Handloads

Our handloading has been handicapped somewhat by imperfect or incomplete equipment and more so by a lack of good bullets. Those we had served to limit the range of our experimenting. Our smallest group at 200 yards was 3.56 inches using 35.5 grs. No. 3031 behind the Sisk 55-grain Express-Magnum bullet and Ipcos graphite wad (overall 2.67"). We also

had a 200-yard group of 3.87 inches with the Sisk 63-grain Niedner Magnum bullet (overall 2.66") and 28 grs. HiVel No. 2. These two loads were primed with R.A. No. 8½ Kleanbore N.M. All later loads mentioned below used graphite wads and R.A. No. 9½ Kleanbore nonmercuric primers. At 100 yards our best loads were as follows (all bullets sized .224 inch):

55-grain Sisk Express-Magnum			
Load	Powder	Group	Overall
36.0 grs.	4064	1.40	2.72
" "	"	1.50	"
" "	"	1.42	2.69
35.0 "	"	1.55	"
63-grain Sisk Express-Magnum			
32.0 grs.	4064	1.85	2.70
" "	"	2.00	"
35.5 "	"	1.63	"
" "	"	2.20	"
63-grain Sisk (Niedner)			
31.0 grs.	4064	1.07	2.68
" "	"	1.98	"
" "	"	2.20	"
32 "	"	1.92	2.72

At 200 yards our later loads gave improved results, shooting into less than three inches rather than slightly over three inches as formerly. These were loaded much the same as formerly but with thinner wads, better bullets and slightly heavier charges in some instances. The 200-yard results follow (same overall length):

55-grain Sisk (2.70" overall)			
Load	Powder	Group	Wad
35.0 grs.	4064	2.40	Ipcos
36.5 "	"	2.88	Sisk
37.0 "	"	2.32	Smith
37.5 "	"	2.85	None
63-grain Sisk Express-Magnum			
35.0 grs.	4064	2.75	None
32.0 "	"	3.90	Ipcos
34.0 "	"	5.03	Sisk
" "	"	5.65	Ipcos
63-grain Sisk (Niedner)			
32.0 grs.	4064	2.10	None
" "	"	2.45	"
" "	"	2.60	{Thin Ipcos
31.0 "	"	6.50	{Thick Ipcos

We obtained some .2225-inch Sisk 55-grain bullets from J. B. Smith and some of his custom handloads. The Smith field load was 39.5 grains No. 4064 behind the .2225-inch Sisk 55-grain Express-Magnum bullet (2.754" overall). Barr shot ten of these into 3.10 inches (9 in 2.50") at 200 yards. He then loaded ten of the same bullets with the same charge in our cases using the same overall length (2.754") and shot them into 3.80 inches (8 in 2.25") at 200 yards. Thus our own loading seemed to give practically the same results as Smith's loading using the same rifle and load.

## AN INCH OFF THE FULL-CHOKE

THE 16 gauge patterns reported in the June and August issues of the Dope Bag were fired as a basis for an experiment which continues. The barrel of our Model-31 Remington slide-action was 28 inches long and the inside diameter at the muzzle was .641 inch indicating a constriction of 33% or a mechanical choke of .021 inch. In this 16 gauge barrel, chambered for 2¾-inch shells, we obtained the most hits at 40 yards with full-length cartridges or with coppered shot in the shorter standard case of 2½ inches. This was true for a variety of Remington loads of No. 6 and No. 7½ shot.

We then cut ½ inch off the muzzle, which left the barrel 27½ inches long and the inside diameter at the muzzle just .648 inch. This was 0.14 inch smaller than standard bore diameter, or a constriction of 21%. This effective enlargement of the muzzle choke appreciably increased the average number of hits at 40 yards. Most loads made gains, while the others held their own except the one load of No. 6 soft shot which fell off four tenths of one point in average hits per 3-inch square. We expected our load of No. 4 shot to gain by such relief of the choke, but our No. 9 shot gained twice as much.

Next we removed another ½ inch of the muzzle leaving the barrel 27 inches long and the muzzle-diameter .656 inch. This represents a bore reduction of only .006 inch or practically an Improved Cylinder choke. Such construction is less than 1% of the standard bore diameter. The net result of this removal of 1 inch of the full-choke barrel was to open the dense centers of patterns like the Field-Choke tube of the Cutts Compensator and, similarly, to maintain the normal ratio of hits.

As compared with our first full-choke patterns from the original barrel only three loads fell off in the average number of hits at 40 yards. One was the load of No. 6 soft shot which lost ½ hit. No. 7½ coppered shot lost three tenths of a point and No. 7½ chilled shot in the 2¾-inch shell also lost 0.3 hit. The others, surprisingly, held their own or actually gained in the number of hits while throwing better patterns, uniformly distributed, for skeet or upland game in brush. One load of No. 7½ chilled in the short case held its own while another gained 0.1 hit. No. 9 chilled gained 0.3 hit and No. 4 chilled held its original full choke average.

Every load was carefully aimed and fired five times for each choke from sitting position at 40 yards on a target contain-

ing 87 three-inch squares. Distribution was observed and logged by counting and averaging hits in the 8-inch, 15-inch and 26-inch circular areas. In addition each load was fired in each choke three times at 20 yards for extreme spread without count.

For 27 shots with each choke at 20 yards the average extreme spread was 20.5 inches with the original full choke barrel, closed up to 19.8 inches with the 27½-inch barrel and opened to 22.5 inches with the 27-inch barrel, which latter, of course, had an inch of choke removed at the muzzle. For 50 shots with each choke at 40 yards including all loads and shot (from No. 9c to No. 4c inclusive) we averaged 177 hits in the 26-inch circle with the original barrel. With ½ inch of the muzzle removed the average number of hits increased to 192. When we cut off the muzzle a total of one inch the average number of hits dropped off very slightly to 172 hits, which is an average loss of only ½ of one pellet per 5-shot series for each load as we tested them.

In this experiment so far we have fired about 300 patterns interspersed with some shooting of hand-trapped Blue Rocks. Our ultimate objective is to fit a Poly Choke on the muzzle for final pattern test, but that will take time. Evidently we will have to remove another ½ inch of the barrel in order to make a cylinder bore of it. We do not advocate cutting off full-choke barrels, although our results indicate that some barrels will give improved patterns when this is progressively carried out by removing a very short section at a time. When too much is removed wide spread and irregular patterns are inevitable. This undesirable effect can be avoided by leaving at least some choke, say .004 inch.

## Long Shells In Short Chambers

We obtained surprisingly good results with 2½-inch shells in the 2¾-inch chamber. When coppered shot was used there was no loss in density or distribution on account of the discrepancy. Of course, the tendency under ideal conditions is quite opposite when long shells are used in short chambers. The load must not be too heavy, the forcing cone must not be too abrupt and the lap must not be too great if maximum improvement is to be had. This is a dangerous practice, as Mr. Curtis pointed out in the July issue, because it causes appreciable increases in pressure (3000 lbs. in one test) and tends to tear or cut cases, which may form an obstruction in the bore.

I believe Mr. Curtis hoped to inspire manufacturers to slightly shorten their standard gun chambers with no intent to encourage indiscrimination among shooters such as using 3-inch shells in 2¾-inch

chambers. Personally I would discourage the practice in general because most guns are unsuited through mechanical, material, dimensional or conditional inadequacy. Even were no danger involved the serious objection of frequent jams and malfunctions in repeating or outloading shotguns would remain as an important obstacle.

## I.M.S. POWDER NO. 4320

IN OUR review last month on the new series of Improved Military Smokeless powders now being marketed by duPont, we mentioned only one loading experience with No. 4320 powder. Since then we have tried it in .25-caliber rifle loads and feel impelled to add to our previous remarks.

## In the .257 Roberts

Among several other propellants we tried No. 4320 powder in our target model 54-Winchester equipped with 1½" 8X Fecker scope using the cheap .25-20 and .25-35-caliber bullets. All shooting was done from prone rest at 200 yards and all loads were satisfactory for that range and the bullets used.

(200 yards—5 shots each)

Charge	Bullet	Group
42.5 grs.	R.A. 60-gr.	1.80
" "	" "	2.47
43.5 "	" "	4.38
35.0 "	U.S. 100-gr.	2.25
36.0 "	" "	3.90
37.0 "	" "	1.90
40.0 "	R.A. 87-gr.	4.75
41.0 "	" "	4.60

In the .25 Remington we found no good load with the 60-grain bullets of Remington or W.T.&C.W. make. Groups went as big as 7 inches for 10 shots with the latter and nearly 8½ inches with the former for only 5 shots. With the 100-grain U.S.C.Co. Improved soft-point bullet of .25-35 caliber we got 10 shots into about 6½ inches at 200 yards, and two 5-shot groups of 2.88 inches and 5.0 inches. The load was 30 grains No. 4320 powder in the .25 Remington.

## SHOOTING GLASSES AGAIN

MEMBER R. E. Stones, of St. Louis, startled us with a report of an occurrence at the state matches which serves to emphasize two of our warnings often repeated in the Dope Bag.

The first one is: Do not use lubricants in military or sporting-rifle chambers nor outside on the bullet or case of the cartridge. Some shooters incautiously grease

their jacketed bullets to cut down bore wear or metallic fouling. A few foolishly grease their cases to promote smooth functioning in rapid-fire rifle shooting. Both practices are extremely dangerous, because grease in the chamber increases the back thrust on the bolt and it increases pressures by decreasing the effective chamber space for the cartridge. On hot days, when pressures are at their maximum level, grease in the chamber has caused the standard .30-'06 factory or Service cartridge to split or rupture its case and send high-pressure gas back into the action and thus into the shooter's face and eyes. The same deplorable effect results from firing heavy handloads when the case has been improperly sized at the shoulder bevel or when the brass has been improperly cleaned and thus weakened with acids, including vinegar.

The second warning is: Never take a chance with an uncertain rifle, cartridge or component without adequate eye protection. On the line in a big-bore match the shooter needs eye protection against the discharge of the next rifle on his left, which fact was borne out by a happening this year. For this reason the trap-shooter's shields or sideguards on shooting glasses are worth while. Our Skeet-Glas with its curved Tru-Site lens extending around the outside of the eyes requires no side shields.

To save the eyes any cost cannot be considered as excessive. However, the actual dollar investment need not be great. The most economical purchase would be a pair of industrial goggles made for workers in factories and machine shops. These are made in open, cool and comfortable models like ordinary spectacles but with larger and thicker lenses of special glass for greater protection. They can be obtained with wide super-strong lenses, common ear hooks and rocking nose-pads of pearl at less than two dollars in plain white and at less than three dollars in tints.

I would suggest the F-3100 Ful-Vue goggle made by the American Optical Company which has a 6-curve ground lens twice as strong as their Super Amorplate lens, which latter is ample for any shooting requirement. These goggles are obtainable in Calobar tint at low cost without prescription grinding and can be had with right or left lens ground to prescription, with the optical center in proper location for prone-shooting or pistol work, at six dollars.

Member Dwight H. Woods of Nashville, Tennessee, who called my attention to these economical goggles, said that his regular spectacles had become spattered with fine particles of metal after shooting the old 1918 Service ammunition. This occurred merely from split necks and burn-punctures of the case-shoulder with-

out any ruptured cases or pierced primers and the experience resulted in his trying the Ful-Vue goggles ground to his prescription which he has found very satisfactory.

#### Hook-Ons for Tints

An economical method of obtaining tints for clear spectacles, goggles or shooting glasses, is to buy hook-ons which fit over the regular lenses. Hook-ons weigh  $\frac{1}{2}$  ounce. The lenses are about  $\frac{1}{16}$  inch thick and about  $1\frac{1}{2}$  inches wide. These hook-ons can be obtained (through dealers in optical goods) in shooters' tints, such as Noviol (a yellow similar to Rifleite) and four shades of Calobar (a green containing less yellow and more blue as compared with Fieuzal lenses). The yellow tint is most popular among shooters because it is a stimulating color which intensifies the light and gives a distinct contrast between sights and target. For regular wear I prefer the milder and less-irritating Calobar, in the medium or lighter shades, which is also practically as effective on the rifle range.

Member Leslie D. Rupert of Boston, Mass., wore Noviol hook-ons over his specs until his doctor suggested his changing to Calobar for working under artificial light. He found the medium or "C" shade of Calobar as good as Noviol in his shooting and for driving (day or night) and as sun glasses he says this shade is excellent, thus being more generally useful.

This agrees exactly with my own experience. My favorite tinted shooting glasses are a light shade of Calobar obtained from the F. W. King Optical Company of Cleveland, Ohio, a decade ago. Their toric lenses are perfectly ground with no distortion and they check irritating rays without cutting out much light. They cover well for protection and ample view in all shooting positions without being cumbersome. They are the lightest and most comfortable shooting glasses I have found. However, the cost of these King glasses practically ruins a ten-dollar bill, even when they are purchased with the cheaper Plano lenses.

The Tru-Site Skeet-Glas in a yellow-green, Fieuzal shade are furnished by W. H. Beltz, Inc., 2 East 44th St., New York City. Other tinted shooting glasses in Noviol and Calobar are obtainable through Walter E. Lytle, 2015 Wascava Avenue, Lakewood, Ohio. Both have curved, ground lenses and cost nearly as much as King's shooting glasses which are furnished in Rifleite and Calobar and are slightly lighter in weight. Shooting glasses are also obtainable through E. B. Meyrowitz, 520 Fifth Avenue, New York City, who features "Intacto" shatter-proof lenses. In selecting any curved or ground Plano glass hold it up away from the eyes and note whether the image or view

through the lenses moves with the movement of the glass, because such image-displacement suggests distortion from the curve or a degree of imperfection in the grinding. The relative movement should not be too plainly evident, except in prescription lenses, or it will cause eye-strain when such untrue glasses are worn. For suggestions on choosing colors see the Dope Bag in the June issue.

#### WHICH HANDGUN?

**E**VEN for such a definite purpose as small-bore target shooting it is not a simple matter to pick a handgun on the first try. I have found that what suits me does not suit the next shooter. Also what is best for one match is not necessarily best for another condition. For the 3-stage N.M. course I think the Ace, a weighted-barrel Woodsman or the Hi-Standard autoloading pistols cannot be beaten in .22-caliber. In .22-caliber revolvers, the Officers' Model, K-22 and H. & R. Single-action.

For slow-fire at 50 yards or 20 yards none of the above are quite as good as the Camp Perry Colt, the U.S.R.A. Model H. & R. or the Straight Line S. & W. These single shots make necessary another purchase for the 3-stage or quick-fire purpose. For combination use of the revolver or autoloading pistol in the slow-fire matches I would pick a big-frame revolver like the Officers' Model, or a heavy-barrel autoloading pistol like the Hi-Standard.

The others would all have to rate second. The K-22 would serve well, but it seems harder to shoot slow-fire than bigger or heavier guns. On account of its small .35-caliber frame and thin shoulder it seems to be grip sensitive. The Official Police has a .41-caliber frame, but fixed sights count it out. The Ace will do fairly well slow-fire, but it does not measure up in the matter of fine dependable accuracy for the special purpose. The Woodsman has a light barrel and lacks balance. The H. & R. Sportsman is too light and too lean in the frame to be ideal as its other good qualities would make it. The Hi-Standard measures close to our ideal but it needs special stocks and more easily adjusted sights. This seems to leave the Officers' Model a clear field.

For personal use we must have Roper stocks on the Colt O. M. revolver and C. P. pistol, Westchester stocks on the Hi-Standard autoloader, and 4 ozs. of lead added to the butt of the S&W, K-22. Thus weighted and plus the S&W adaptor Barr has boosted his 50-shot average to 86 with the K-22.

## NEW BRIDGE-TYPE MOUNTS

**O**UTSIDE of the privately made and special creations of Mr. Packard our American bridge-type mounts have been represented by those of Belding & Mull, Weaver and Redfield make. Such mounts rest on top of the receiver and support the scope at front and back like a bridge. The American bridge-type mounts hold their scopes directly over the bore and in low position. It is a very practical and strong design for a scope sight which is to be used exclusively without recourse to metallic sights.

With the Zielklein, Weaver and B. & M. Hunter scopes, such outfits are very neat, compact and unobtrusive. The neatest of these is the B. & M. Hunter scope sight which has no projections on mount or instrument. Until recently it had the cleanest and smoothest outline of any scope sight. Now this relative evaluation has been changed by the advent of the Sorenson mount and the Stith mount, which bridge-type mounts feature freedom from projections and widely separated bases.

### The Stith Mounts

M. L. Stith of San Antonio, Texas, sent us a Model-54 Winchester and a Model-61 Winchester equipped with his new mounts. The front mount is a sleeve fastened by a block to the top of the barrel near the breech. The rear mount is a heavy split-clamp band on the scope tube and attached to the permanent base, which latter is a straight vertical piece held to the left side of the receiver by three screws. While found practical as issued in our shooting, this permanent base would be greatly improved with a wider contour-fitting bottom where it contacts the receiver. It would then accommodate a couple of taper pins in addition to the crowded three screws as used in the sample outfit.

The horizontal adjustment is in the permanent base and the elevation adjustment is in the front base when it is not provided in the scope. Adjustments are controlled by means of a hexagonal-headed threaded bushing. These bushings are turned by a special spanner wrench. The adjustments are locked by auxiliary screws. Other screws inside the bushing hold and lock the mount to the base. Where it passes through the bushing the holding screw is smooth to provide a pivot for the adjustment in the opposite plane. We found these adjustments very reliable, but limited in range. Stith says the hex heads of the bushings will be graduated in half-minutes and probably in quarter minutes.

When the scope is removed only the flat front base and the straight vertical rear block containing the bushing remain on the rifle. Because the adjustments remain locked they or the zero are not

affected by removal and replacement of the instrument providing the holding screws are uniformly tightened as they must be for security. This outfit, however, is best left on the gun as an exclusive all around sight and it is well adapted for that purpose on account of the low position, absence of projections and wide separation of bases at extreme front and rear. The sleeve into which the front end of the scope fits is beveled or sloped to the barrel in front in a streamline manner which prevents catching scabbard straps, brush or twigs under the scope in front.

### On the M-61 Slide-Action

The .22-caliber Winchester hammerless repeater had a Weaver 3-29S scope in Stith mounts with a base separation of 9 inches. The space between bottom of scope and top of receiver was 7/32 inch. This position of the instrument brought the line of sight 1 1/8 inches above the bore. This mount had an adjustable bushing for elevation in the barrel block. One turn of this bushing moved the 50-yard impact 4.8 inches and 5.25 inches while 1/4 turn moved the group 1.60 inches. This discrepancy, I believe, was caused by the lack of graduations and the inexactness of our adjustments. I gave it 2 1/2 turns elevation and got into the black at 200 yards, with the group centered 3 1/2 inches above aim. This was 8 inches high for Barr who used a different position. Accordingly he lowered it 1/3 turn which brought the impact down 7 inches, or just an inch above aim.

The range of the horizontal adjustment was 1 3/4 turns of the windage bushing from extreme right to left. At 200 yards 1/4 turn moved the group 10.5 inches. At 50 yards a scant 1/2 turn, to the extreme right, moved the impact 1.9 inches and this properly zeroed the rifle for that range. A complete turn moved the group 4.7 inches. In shooting groups at 50 yards Barr was able to get them placed at will with one adjustment for each change, indicating reliability may be expected when the 1/4-minute graduations are provided.

Moving the impact for each ten shots by manipulating both adjustments Barr fired a series of groups at 50 yards. Precision ran, 1.10, 1.08 and 1.21 inches. Super Match averaged under an inch, with ten-shot groups of 0.8, 1.05 and 1.12 inches. The M-61 is one of the most accurate slide-action repeaters we have tried.

### On the M-54 Bolt-Action

The .270 Winchester had a Zeiss Zielklein scope in Stith mounts. The scope cleared the receiver hood by 1/16 inch and the line of sight was 1-7/32 inches above the bore line. The drop from the

scope at 200-yard adjustment was 1-15/16 inches at the comb and 3 inches at the heel. Since the Zeiss scope has an elevation boss for internal adjustment only the windage adjustment was provided in the Stith mount. The windage bushing was larger in this outfit and it had to be controlled by the opposite end of the special spanner which had a 9/16-inch socket for this mount and a 1/2-inch socket for the other mount.

We fired the M-54 only at 200 yards and found it was adjusted about right for Winchester factory ammunition. Because of an obstruction on the top of the Zeiss aiming post we could not take exact aim to check adjustments. This also made our groups larger than they should have been. With each five shots we got a flier or two which doubled the size of the normal group. The 150-grain S.P. bullet grouped best and the 130-grain F.M.J. poorest with one as large as 8.5 inches and the smallest group no better than 7.2 inches. The 130-grain expanding point bullet was better with groups ranging from 4.12 to 7.5 inches. One of its groups had all but one shot in 2.58 inches. The 150-grain Soft-Point bullet consistently gave groups of 3.85 and 3.95 inches, one of them with all but one shot in 1.48 inches at 200 yards.

The Stith mounts as a standard on this action will be placed slightly higher than the sample outfit in order to clear a special safety on the M-54 Winchester. The sample rifle had an altered Redfield safety which permitted the desirable but abnormally low position mentioned above. We would not like it as well in the high position and note this will be avoided by the maker. We would also prefer a wider base on the vertical rear block with a concave to fit the receiver for a stronger construction at this most vulnerable point of this exceptionally fine mount.

### The Sorenson Mount

Andy Sorenson, ex-official predator shooter and well known exhibition rifleman, has designed a simple bridge-type mount which he has been using successfully for the past two years. This design features low position, wide base support and quick detachability as well as simplicity and smooth outline. It uses the quarter-turn locking pivot of the Redfield mount and the resting yoke of the Weaver V-type mount in combination. However, it is more simple than either. Andy's design does not require the lock of the Redfield mount or the hold-down hooks of the Weaver design. The scope is quickly engaged in the front of the mount, swung on a short arc until it comes into approximate alignment with the barrel and receiver and then merely dropped into the V-rest on the bridge. Less than a second

for removal and two or three seconds for replacement. The locking pivot has a ball stud center and opposing lips, the rearmost engagement being arc wise, or on a cam-like contact.

This front-mount socket is on a long flat spring which holds the open upright yoke at the rear end. The front end is fastened several inches forward of the hood or barrel breech. The rear end rests on the bridge, and is fastened to its right side. An adjustable screw makes the actual top contact, so the actual stop area is small and exact and the elevation is adjustable. When the male part on the front end of the scope is engaged in the front-mount socket it prys down on the long connecting spring and keeps it under tension for dependable contact with the top of the receiver at the bridge. It is a hunting mount rather than a target mount and it has slotted-screw adjustments for windage and elevation at the rear end of the outfit. The radius of the horizontal adjustment is considerably shortened so that equal turns of the screws change the windage more than the elevation.

#### On the M 30-S Bolt-Action

The one we tried was on a .25 Remington Model 30-S with B. & M. 2½X scope. The scope axis was 1½ inches above the bore axis, giving a drop of 2½ inches at the comb and 3-3/16 inches at the heel. The total length of the mount with connecting spring was a bit over a foot. The separation of the resting points, front and rear, was 12¼ inches. However, the sight-base for windage adjustments was 7½ inches, while that for elevation adjustments was 8¾ inches.

When the scope is removed the shallow rear yoke on the end of the flat spring remains projecting slightly above the bridge. The spring remains over the action, in the way for clip loading of the magazine. In front the female base, on top of the long base spring, is flat and unobtrusive. In front of this base is an open-type rear sight which comes into view, to serve as an auxiliary sight, when the scope is taken off. This scope is so quickly and easily detached that a fear is felt it might be prone to dislodge itself accidentally. However, this requires a particular compound motion that must lift the back end out of its yoke rest and swing it several inches to the right of the receiver. Also the average zero does not seem to change through such removal and replacement of the scope, and the accuracy is but slightly affected. In our first 200-yard test the worst we could get was a 40% increase in group diameter by careless or indifferent replacement of the scope between shots. In our other removal tests conducted on the same day our groups enlarged from 3½% to 13% when we re-

moved the scope between shots. On another day these results were reversed in a more careful test.

In this .25 Remington our best group at 200 yards was obtained with 30 grains of I.M.R. No. 4320 behind the U.S.C.Co. Improved .25-35, 100-grain, soft point bullet. This shot into 2.88 inches. The next best load was 23.5 grains of I.M.R. No. 4227 behind the R.A.Co. .25-Remington 87-grain open-point bullet which shot into 3.00 inches. The best load with any 60-grain bullet was 24.5 grains of I.M.R. No. 4198 behind the R.A.Co. .25-20, 60-grain, open-point bullet which shot into 4.88 inches at 200 yards.

On a second day we rechecked the outfit over the 200-yard range, by shooting 5 shots for normal group size and then removing the scope between shots for the next 5 shots, followed by third string of 5 with the scope left in place. Two shooters did this with two different loads at 200 yards. This time we used greater care in replacing the scope between shots and got no change in zero or impact which could be charged to the mount and no increase in spread. In fact, those groups made while removing and replacing the instrument between shots happened to be appreciably smaller than the others. This more than evened matters in favor of the detachable feature of the Sorenson mount, because the 200-yard groups measured 28%, 33% and 45% larger when the scope was left in place for each 5-shot string.

The far-from-finished outfit we tried was a very crude pilot model. To our knowledge it is not yet manufactured. The extreme front end of the flat base spring was fastened in the dove-tail slot of the Remington rear-sight barrel band. The rear end was fastened to the right side of the bridge by utilizing the two screw holes provided by Remington for the Lyman 48-R receiver sight. The screw-driver adjustments appeared to be only approximate or rough for a hunting zero rather than definite for target work. One-half turn of the small elevation screw seemed to lower the impact about 3½ inches at 200 yards, or 3½ minutes per turn. A turn of the windage screw apparently moved the impact about twice that much.

#### MISCELLANEOUS

Griffin & Howe, Inc., makers of fine guns and sportsman's equipment, inform us that their time cards and work-order cards clearly show that their Mr. Ernest Kerner stocked the fine .300 Magnum rifle with which Ben Comfort won the Wimbledon Match at Camp Perry last

year. The stock was made throughout by the hand of Mr. Kerner except for the rough milling out of the blank for the barrel and receiver which was done by one of the G. & H. metal workers. Since we were previously misinformed and had incorrectly stated in this same column (July issue) that another G. & H. stocker did the job in question we apologize to Mr. Kerner and are glad to present the facts of the case to our readers.

**New 355 Weaver.** Similar to 333 and 344 Weaver scopes, but it is a 5-power and has ¼-minute internal adjustments. Designed for small game shooting where greater magnification is wanted at times. Price of complete sight, \$10.00. Flat-top aiming post in any low-price Weaver scope, \$1.00 extra.

We tried the new 355 Weaver on the M-5 Savage rifle; a low-price bolt-action. It had very good definition and a cross-hair reticule which was very easy to hold on a ¾-inch target paster at 50 yards. However, a small flat-top aiming post is infinitely better in a low-power (2½ to 3X) game scope because it is practical under varied conditions, especially one of poor light late in the evening. The field of view was 18 feet at 100 yards. The eye relief was 1¼ inches.

At 50 yards 24 clicks moved the impact 3.10 inches by the windage screw and 2.85 inches by the elevation screw. Twenty clicks gave a movement of 2.55 inches horizontally and that much raise moved the group 2.50 inches at 50 yards. The 20-click movement indicates about ¼-minute units and the average obtained with 24 clicks in both planes does also.

Barr shot this outfit just before leaving the range late in the evening in order to utilize the light handicap which prevails at dusk. However, he obtained normal groups for the rifle at 50 yards. Store Kleanbore averaged 1.13 inches per ten shots, with groups of 1.55, 0.64 and 1.20 inches. Super Match, which seems to like all our rifles, averaged under an inch, or 0.88, with 10-shot groups of 0.85, 0.80 and 1.00 inch.

**Merit Iris Apertures** in the form of a target disc for the Lyman 48-J receiver sight was announced in these columns more than a year ago. Since then the Merit iris shutter has been adapted and furnished for practically all makes and models of aperture sights except those which have a small thread like the King and Marble.

New items supplementing the original Merit No. 1 include: the Merit No. 3SS with a disc thickness of ¼ inch (½ less than the No. 1 thickness) and Merit No. 3LS of the same ¼-inch thickness, but with a shank ½ inch longer than the other two. Then there is the Merit No. 3S which has a shoulder on the shank for

Vaver, Stevens and Remington receiver sights. The Merit 4SS has an outside disc diameter of  $\frac{1}{2}$  inch, which is  $\frac{1}{16}$  inch smaller than the outside diameter of the No. 1 or No. 3 series mentioned above. There is also the Merit 4LS of  $\frac{1}{2}$ -inch diameter but otherwise corresponding with No. 3LS. All discs mentioned above are listed at \$2.25 each.

Adaptors are furnished for mounting the No. 4LS disc in the Lyman and Redfield globe front sights. This provides an adjustable iris shutter for the front sight aperture and makes it possible to suit the immediate light condition by turning the Merit sleeve instead of interchanging discs. Because of the solid fill surrounding the aperture better definition is possible. Also this demands greater care in keeping on the right target in shoulder-to-shoulder competition.

Other new items include the Merit No. 8 special disc with special side plate for the standard factory leaf sight of the 52 Winchester. There is also a Merit No. 2 light shield for use on standard Merit discs. This is of rubber,  $1\frac{1}{2}$  inches wide. We had trouble keeping ours from slipping off the new-model discs, because, as we learned later, it was designed for the thicker No. 1 disc. Some shooters use them on their  $\frac{3}{4}$ -inch telescopes.

The smaller Merit discs are adapted for hunting, because much of the old Lyman peep-sighting principle can be had merely by turning the iris shutter wide open for this purpose of quick aim. There is some sacrifice of fine grouping involved in this, as indicated by our experiments, but when fine accuracy is more important than quick aim, the adjustable shutter can be quickly closed. We have had good results with the new Merit discs in our Vaver rear sights when the iris aperture was properly adjusted by experiment on the range.

On our .22 Springfield with heavy Pope barrel we tried the Merit iris discs in combination; both front and rear. As a check with the issued Lyman sights our 100-yard group was just over 2 inches, or 2.13 inches. Then with the two Merit discs wide open our group opened to nearly 3 inches, or 2.95 inches. Then the adjustable feature was brought into play until both apertures, front and rear, suited the eye and matched the prevailing light condition. The grouping responded immediately by shrinking to 1.51 inches, with an average of 1.76 inches for Super Match and of 1.83 inches for Precision at 100 yards.

The Marble-Goss sight for the 52 Winchester with three-position extension base has been received and tried. We used it with the Redfield globe sight on the Vaver barrel band. In the short position the distance between front and rear apertures was  $32\frac{3}{8}$  inches. The longest position

increased the radius to  $33\frac{7}{8}$  inches. The center position suited Barr best and was used in his tests. This gave a sighting radius of  $33\frac{3}{4}$  inches.

At 200 yards 8 clicks on the windage screw moved the impact 7.7 inches on the target. The best 10-shot group with store Kleanbore was 4.9 inches. There are 12 clicks per turn of either screw. On the elevation scale each division is worth a complete turn, 12 clicks or 3 minutes and they are easy to read and log when this is known, the commonly used system being 5 minutes per turn or graduation on micrometer sights, glass or iron.

Seven revolutions, or 21 minutes down, zeroed the outfit for Super Match at 50 yards. At this range 12 clicks, or 1 turn of the elevation screw, moved the group 1.75 inches. On the windage screw 12 clicks moved the impact 1.5 inches, and 16 clicks changed it 2.25 inches. The clicks were very positive in sound and feel. The movements are all clockwise, or right for right and in for over or down, and seem natural in direction on account of the left-hand thread featured in sights of this make. We reversed the location of the aperture to raise it to scope height, which is easily done with the Goss. Another fine feature is the optically superior Watson eye-cup used in these sights.

As evidence of the practical advantages of these sights Barr got groups almost as good as those he fired with scope sights on the same rifle. With the Goss and Redfield sights a hundred shots averaged .743 inches at 50 yards. Super Match, per 10 shots, ran .95, .72, .90, .63 and .67 inch for an average of .774 inch; while Precision ran .55, .65, .80, .86 and .70 inch for a mean of .712 inch per 10 shots.

**Siebert Scope Holder** by S. R. Siebert, San Diego, California (2690 Kettner Road) is legless, and only 9 inches long when folded. It has a vise-like clamp base and is intended for the outer corners of shooting kits like the Badger or the smaller Buchanan 4-gun pistol case. The staff is inside the kit when arranged for spotting. We tried only the short model from prone. A pistol shooter's extension is, however, available. Our only criticism is: the V-rest is too meager in spread to fit a large-barreled scope like the B. & L. The price is very attractive as is the compactness. It sells at \$2.75, with 25 cents more for the long shaft.

**Jaymac Tripod** also sells for \$3.00 and folds to 3 x 9 inch space. An extension to raise to 25 feet for sitting observation adds a dollar. The Jaymac Company is at 31 North Schenley Avenue in Youngstown, Ohio. We found this tripod very satisfactory within the limits of 9 inches to 25 inches above the ground.

It is made of cast aluminum and weighs 20 ounces. With the extension it folds into a bundle a foot long. The staff is

solid and  $\frac{1}{2}$  inch thick for rigidity. It has one joint with a locking screw controlled by a wingnut. Special lengths of shaft are available.

**The Hart "All Purpose" Scope Stand** evokes our enthusiasm. For all around use we have yet to find a better one. In the prone position the height is adjustable between  $9\frac{1}{2}$  and  $14\frac{1}{2}$  inches. There is another height for sitting and the maximum raise to 57 inches for standing. Rigidity is obtained in all positions by using a solid  $\frac{5}{8}$ -inch shaft of aluminum alloy and snug-fitting joints throughout. A spiral groove (rapid  $\frac{1}{4}$ -inch pitch) in the end of the shaft and a set screw in the collar of the tripod makes vertical adjustments and swinging employment convenient at all heights.

We have found the V-rest of this tripod fits any and all of our spotting scopes. A web strap is used for fastening the scope. It may be permanently left strapped to the V-rest, because the latter is quickly detachable from the shaft.

The tripod of this excellent scope stand deserves special mention. The legs are well designed for stability on top of the ground, and they may be thrust into the ground. There was no wobble at any height in our tests. In addition there are folded auxiliary leg-extensions which may be opened to increase the normal length from 8 inches to  $11\frac{1}{2}$  inches. The advantage of these adjustable jointed Hart legs is the flexibility they permit in arrangement of the scope holder on the firing line. The staff may be tilted by using two short legs and one extended leg, or vice versa, to clear the forward elbow and arm in a prone match. One of the range officer's jobs is to seek out and mildly (as possible) annoy those shooters who inadvertently get their forearms or elbows into resting contact with the legs of their spotting-scope tripods. The Hart jointed legs obviate this.

The Hart stand is also quite compact. The jointed legs fold into a comparatively thin bundle less than a foot long. It may be left on the extended shaft or disassembled. The only disadvantage I can find is the cost, which is \$11.00. However, I think the Hart "All Purpose" is easily worth it.

**Japanese Imitation.** While on the subject of spotting equipment, I want to warn our members about cheap imported glasses which are made to sell, but not for use. One we examined recently is a very faithful Japanese copy of the B. & L., N. R. A. Jr. draw-tube, but having worthless optics and made of worthless material. It is very neatly constructed to catch the unwary until closer examination or trial discloses its impractical cheapness. On the purchased sample the threads quickly wore out (in twenty complete removals) and now the caps are a

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poor sliding fit. Optically, it is a trap for the eyes and dangerous to use. At 200 yards we could make out the blurred pasters but no rings, and at 50 yards where we could see the bullet holes we got some painful eyestrain.

**Speeduel** is a shooting game for rifles or pistols made by the Speeduel Manufacturing Company of Glendale, California. It is durably made for long usage, and first cost is last cost because there are no targets to buy for replenishment. The police service gun outfit with 6-inch targets costs \$28.00. We used the .22-caliber outfit which cost \$7.50.

There are two metal targets suitable for 15 to 25 yards with the pistol and for 25 to 50 yards with the rifle. It could also be used at 100 yards for prone position and match rifles. It is best adapted for plinking rifles and two duelists, although a lone shooter could practice with it alone by holding the control string as he shoots. The ideal set up is a three-some, the third party to pull targets and give signals.

The way it works out is to have two shooters select right or left target, both being exposed together. At a signal they raise their arms and fire at will. The first hit knocks over the hinged target and at the same time interposes a metal blank to stop the other shooter's bullet. Even when they shoot at practically the same time, the one who is a fraction of a second slower will hit the blank and score a miss. Because a hit knocks out the opponent it is a duel. It is a practical game because only the first hit counts. It works smoothly and unflinchingly. Used flat in horizontal position it is practically invulnerable.

**Jewett Safety Holster** is the proper name for the Engleman Holster described in these columns last month. The Jewett Safety Arms Holster, Route 2, Bakersfield, Calif., sent an improved sample which works very well indeed. Instead of the safety stop over the cylinder the new model uses a gun-holder stop behind the trigger which also prevents firing until the gun is drawn. This permits cutting the top on a straight slant. The whole job is neater and it works more smoothly as compared with the first sample. The price is \$8.00 with swivel belt loop; \$7.00 without swivel.

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from gun bores. It must be kept out of the action and following its use the bore must be washed and oiled. In our tests it did not seem to affect the blued finish. We found it necessary to use a brass brush to speed up the operation. We have used Hoppe's No. 9 for this purpose, but found that less scrubbing was required with the Nimrod preparation. However, Hoppe's is safer to use as it will not harm the action and it may be left in the bore.

We also tried some of the "Square Swab" and "Sure Shot" cleaning patches in our rifles and shotguns and found them to be of good quality and very satisfactory. Both patches and lead remover are made by the Fur Fame Bait Company, Fremont, Ohio, makers of Nimrod (cold-process) and U. S. (hot-nitric-type) gun blues.

**A Circulating Library**, to make available all books on ballistics and shooting, is proposed by George L. Ross, 104 N. Hamilton, Watertown, New York. Mr. Ross, already established in the sporting goods business, would charge a registration fee of 50 cents from each book-borrower plus a rental charge of 50 cents for the first week and 25 cents for any additional week. These rates may finally be modified or applied only to the very best and most expensive books. Mr. Ross is depending on those interested to write and tell him their requirements giving a list of the books desired.

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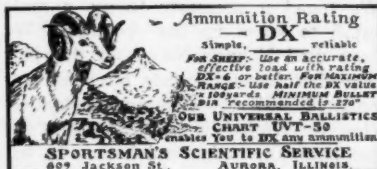
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inches at 100 yards; twelve clicks or two turns equal one division on the scale.

We tried it as issued on the M-19 N. R. A. Target rifle with blade front sight. Eight clicks gave from 2 to 2.25 inches elevation at 50 yards. An equal amount on the windage screw gave 2 inches. The groups obtained with the blade front sight were so mediocre (1 1/2 to 1 1/2 inches) that we had to try the outfit again with a better hooded target sight of aperture type. This time we used the Merit Iris disc which fits the Savage rear sight. We also used the Merit Iris disc with adapter and Vaver shade in the Lyman 17-A front sight. The 10-shot groups at 50 yards were much better (.073 to 1.2 inches). For 30 shots each, Super Match averaged .89, AZ34-BB averaged 1.06 and EZX'S averaged .85 inch.

We also tried the Watson-type eye cup from the Marble-Goss in the Savage rear sight and obtained the same average with EZX'S but smaller averages with AZ34-BB (.76 inch) and Super Match (.79 inch). The 50-shot averages for each load were respectively: .85 inch, .94 inch and .85 inch. Only one shot out of 150 was wider than the 10-ring. That one poor group which spoiled the average of AZ34-BB had 9 shots in .90 inch. This load also gave the smallest 10-shot group which was .63 inch.

The Savage extension base is flat, neat and amply strong. When held by the two rear-most holes in top of the M-19 receiver it brings the aperture 1 1/2 inches in back of the striker. This leaves 3 1/2 inches between sights. The sight block itself and the fitting is not as good as the base, there being some play evident when the aperture is grasped by the fingers. Although it is unlikely, this could conceivably affect the zero and grouping under certain circumstances.

**Hand Made Cases.** Arthur E. Anderson, machinist and gunsmith of Fullerton, North Dakota, sent in two neat samples of brass cartridges he had made for the .40-70 Sharps Straight and the .40-70 Ballard rifles. Such cases undoubtedly are for low-power cartridges, and, because he likes the work, Mr. Anderson says he will make them as a favor to "rifle nuts" at 15 cents each.



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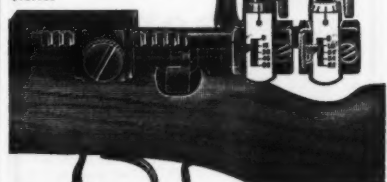
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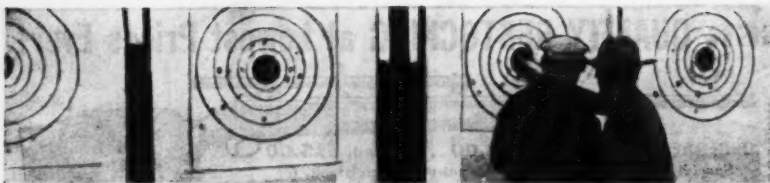


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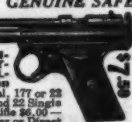
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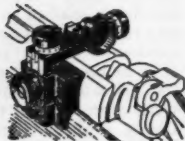
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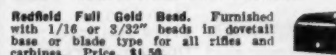
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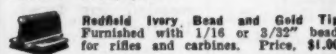
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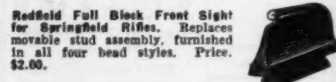
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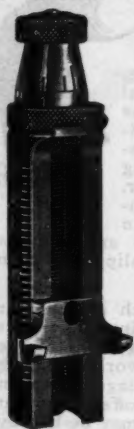
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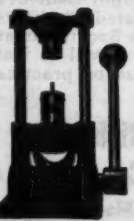
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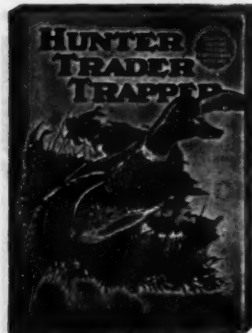
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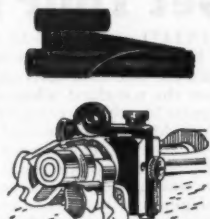
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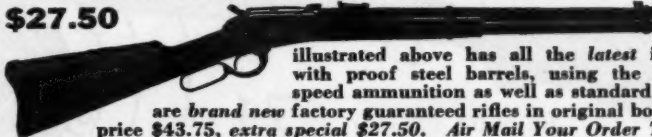
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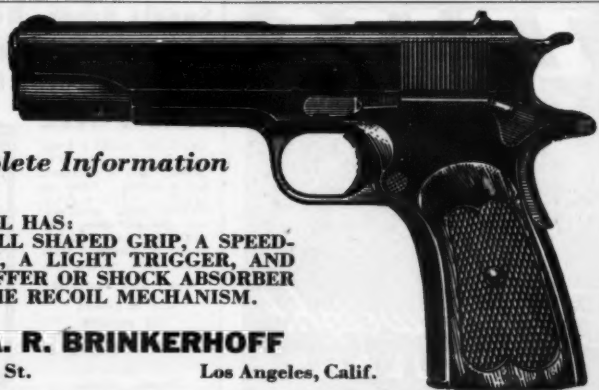
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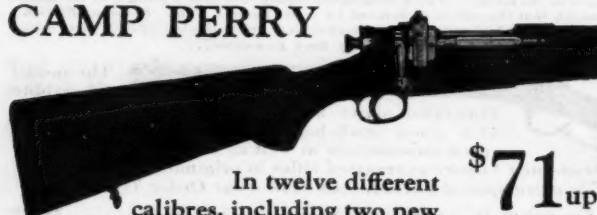
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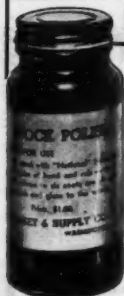
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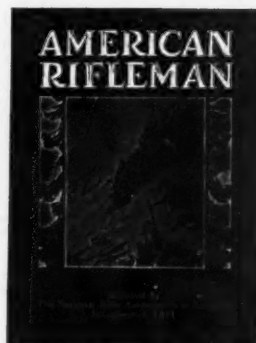
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The 200 YARD group reproduced here actual size was made with SUPER-MATCH by Mr. E. K. Waters, on the decimal small-bore target. The rifle was a Winchester 52—heavy barrel.

No wonder the fellows who are shooting SUPER-MATCH are walking off with the jewelry! The SUPER-MATCH wins listed below are but a few of the many reported during the past few months from all sections of the country.



### OHIO STATE MATCHES

Camp Perry, Ohio --- June 26-28

#### 100-Yd. Any Sight Match

1st—E. K. Waters ..... 397 .. 19 X's

#### 50-Meter Match—Iron Sights

2nd—E. K. Waters ..... 394

#### Grand Aggregate

2nd—E. K. Waters ..... 2359 x 2400

### ARROWHEAD ROD & GUN CLUB

La Grange, Ill. --- May 30-31

#### Any Sight Dewar Match

1st—E. K. Waters ..... 397 .. 26 X's

3 more X's than any other place winner.

#### Iron Sight Dewar Match

2nd—E. K. Waters ..... 397 .. 26 X's

9 more X's than any other place winner.

#### Grand Aggregate

1st—E. K. Waters ..... 985 .. 52 X's

12 more X's than any other place winner.

#### 50-Meter Iron Sights

2nd—Earl Mercier ..... 196

(Tied for First)

### ILLINOIS STATE MATCHES

Ft. Sheridan, Ill. --- July 26

#### Individual Dewar Match

1st—Earl Mercier ..... 399

2nd—E. K. Waters ..... 398

5 of first 9 won with SUPER-MATCH

#### 5-Man Team Dewar Match

1st—East Alton Rifle Team ..... 1985

### N. R. A. POSTAL MATCHES

#### 50-Meter Iron Sights

1st—E. K. Waters ..... 399

#### Junior Individual 50-Yd.

1st—James W. Cooper ..... 199 .. 16 X's

5 more X's than any other place winner.

### PENNSYLVANIA SMALL-BORE TOURNAMENT

Indiana, Pa. --- July 9-11

#### State Small-Bore Championship

Winner—H. D. Griffith ..... 1385

#### 100-Yd. Individual

2nd—H. D. Griffith ..... 200 x 200

#### Grand Aggregate

4th—H. D. Griffith ..... 1385

### ZEPPELIN MATCHES

Akron, Ohio --- July 31—Aug. 2

#### Zeppelin Open Small-Bore Championship (An Aggregate)

2nd—W. B. Woodring ..... 1480

4th—Earl Mercier ..... 1475

#### Zeppelin Individual

1st—W. B. Woodring ..... 496

#### Dewar 2-Man Team Match

2nd—W. B. Woodring, A. Franz ..... 794

3rd—V. J. Tiefenbrunn, E. Mercier ..... 791

SMALL-BORE shooters are learning in ever-increasing numbers that the ammunition for X's is Western SUPER-MATCH .22 L.R. Smokeless!

Mr. E. K. Waters of Chicago is one of many who has been demonstrating it all year. He had 19 X's in his 397 that won the 100-yard Any Sight Event at the Ohio State Matches, Camp Perry, Ohio—and he placed second in the Grand Aggregate consisting of 7 separate matches—with a score of 2359. At the Arrowhead club tournament, LaGrange, Ill., Waters placed first in the Grand Aggregate with a 985 that included 52 X's!—12 more than any other place winner. He was first in the Any Sight Dewar with 26 X's. Score: 397—3 more X's than any other place winner. And second in the Iron Sight Dewar with another 397 and 26 X's, 9 more X's than any other place winner!

SUPER-MATCH showed the stuff of which it is made in the Camp Ritchie Matches—in the Zeppelin Matches—in the Ohio State, Pennsylvania State, Illinois State and Missouri State Matches—and many others! Try it at Camp Perry this year! The Coupon will bring full particulars.

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Please mail full particulars of Western SUPER-MATCH .22 L.R. Smokeless cartridges to:

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Address .....

### 50-Meter 2-Man Team Match

2nd—W. B. Woodring, A. Franz ..... 791

### Ohio vs. Great Britain

U. S. Team score ..... 2794

Four members of 10-man team used SUPER-MATCH, including first three places, with scores of 400, 399 and 398.

### Ohio vs. U. S. S. R.

U. S. Team score ..... 2801

Four members of 10-man team used SUPER-MATCH.

### EASTERN SMALL-BORE TOURNAMENT

Cascade, Md. --- July 1-5

Palma Individual—150, 175, 200 Yds.

2nd—Edwards Brown 225 x 225 .. 38 X's

#### Eastern Junior 50-Yd.

2nd—U. S. Eberhardt, Jr. .... 196

3rd—N. Sawyer ..... 194

### MISSOURI STATE MATCHES

Jefferson City, Mo. --- May 16-17

#### State Small-Bore Championship

1st—V. J. Tiefenbrunn ..... 163

2nd—Al Freeland ..... 160

4 of first 5 won with SUPER-MATCH

#### Senior Individual Dewar Match

1st—E. Brown ..... 399

2nd—Earl Mercier ..... 398

3rd—V. J. Tiefenbrunn ..... 397

#### Senior Dewar Team Match

1st—East Alton Rifle Club ..... 1380

#### Senior 100-Yd. Sitting Championship

1st—V. J. Tiefenbrunn ..... 160

#### Senior 50-Yd. Kneeling Championship

1st—C. Luther ..... 160

2nd—V. J. Tiefenbrunn ..... 159

3rd—T. J. Sharpe ..... 158

### MID-WEST RIFLE and FISTOL TOURNAMENT

Lafayette, Ind. --- June 26-28

#### 50-Yd. Individual—Iron Sights

1st—V. J. Tiefenbrunn ..... 160

3rd—L. K. Rybolt ..... 158

#### 50-Meter—Iron Sights

1st—Edwards Brown ..... 160

2nd—V. J. Tiefenbrunn ..... 159

#### Iron Sights Dewar Match

1st—A. Franz ..... 160

3rd—Edwards Brown ..... 159

4th—Earl Mercier ..... 158

#### 50-Meter—Telescope Sights

1st—V. J. Tiefenbrunn ..... 160

2nd—Earl Mercier ..... 159

4th—A. Franz ..... 158

